ENVIRONMENTAL
Data Services, Inc.

TAL METALS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10040606

Client: ARGO Systems, Glen Burnie, MD Date: June 3, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	BG-7	10040606-001	Soil
1MS	BG-7MS	10040606-001MS	Soil
1MSD	BG-7MSD	10040606-001MSD	Soil
2	BG-8	10040606-002	Soil
3	BG-9	10040606-003	Soil
4	BG-1	10040606-004	Soil
5	BG-2	10040606-005	Soil
6	BG-3	10040606-006	Soil
7	BG-10	10040606-007	Soil
8	BG-11	10040606-008	Soil
9	BG-12	10040606-009	Soil
10	BG-4	10040606-010	Soil
11	BG-5	10040606-011	Soil
12	BG-6	10040606-012	Soil
13	DUP-1	10040606-013	Soil
14	DUP-2	10040606-014	Soil

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level mg/kg	Qualifier	Affected Samples
EB-1	Thallium	0.6	1.5	B	1
EB-2	Zinc	10	25	B	8

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following.

MS/MD Sample ID	Compound	MS/MSD %R/RPD	Qualifier	Affected Samples
1	Manganese	132%/139%/Ok	K	All Samples
	Potassium	126%/132%/Ok		
	Vanadium	126%/Ok/Ok		

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate results are summarized below.

Compound	BG-2 mg/kg	DUP-1 mg/kg	RPD	Qualifier
Aluminum	17000	14000	19%	None
Arsenic	5.1	4.2	19%	None
Barium	73	48	41%	None
Calcium	2000	1100	58%	None
Chromium	14	11	24%	None
Cobalt	7.2	6.4	12%	None
Copper	12	10	18%	None
Iron	9700	17000	55%	None
Lead	58	39	39%	None
Magnesium	4200	3700	13%	None
Manganese	270	270	0%	None
Mercury	0.12	0.07	53%	None
Nickel	8.3	7.1	16%	None
Potassium	2400	1900	23%	None
Sodium	50	37	30%	None
Vanadium	25	21	17%	None
Zinc	64	37	53%	None

Compound	BG-6 mg/kg	DUP-2 mg/kg	RPD	Qualifier
Aluminum	21000	20000	5%	None
Arsenic	5.0	4.6	8%	None
Barium	120	96	22%	None
Calcium	990	820	19%	None
Chromium	11	11	0%	None
Cobalt	6.3	5.9	7%	None
Copper	8.1	9.1	12%	None
Iron	14000	14000	0%	None
Lead	19	25	27%	None
Magnesium	1600	1600	0%	None
Manganese	700	520	30%	None
Mercury	0.07	0.11	44%	None
Nickel	6.9	7.0	1%	None
Potassium	1300	1500	14%	None
Vanadium	19	21	10%	None
Zinc	44	52	17%	None

Compound Quantitation - Several compounds in several samples were analyzed at a dilution due to high concentrations.

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 10040606
ARGO Systems, Glen Burnie, MD
April 20, 2010

Project Name: NTCB
Project Location: Port Deposit
Project ID: 1462309

Sample ID: BG-7 MS/MSD **Date/Time Sampled: 04/05/2010 09:20** **PSS Sample ID: 10040606-001**
Matrix: SOIL **Date/Time Received: 04/06/2010 11:55** **% Solids: 81**

TAL Metals Analytical Method: SW846 6020A Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Aluminum	**4,800**	mg/kg	300		10	150	04/07/10	04/16/10 21:16	1034
Antimony	ND	mg/kg	3.0		1	1.5	04/07/10	04/08/10 19:53	1034
Arsenic	**0.89**	mg/kg	0.3		1	0.3	04/07/10	04/08/10 19:53	1034
Barium	**14**	mg/kg	3.0		1	1.5	04/07/10	04/08/10 19:53	1034
Beryllium	ND	mg/kg	3.0		1	1.5	04/07/10	04/08/10 19:53	1034
Cadmium	ND	mg/kg	3.0		1	1.5	04/07/10	04/08/10 19:53	1034
Calcium	**280**	mg/kg	61		1	30	04/07/10	04/08/10 19:53	1034
Chromium	**2.5**	mg/kg	3.0	J	1	1.5	04/07/10	04/08/10 19:53	1034
Cobalt	ND	mg/kg	3.0		1	1.5	04/07/10	04/08/10 19:53	1034
Copper	ND	mg/kg	3.0		1	1.5	04/07/10	04/08/10 19:53	1034
Iron	**1,700**	mg/kg	61		1	30	04/07/10	04/08/10 19:53	1034
Lead	**11**	mg/kg	3.0		1	1.5	04/07/10	04/08/10 19:53	1034
Magnesium	**160**	mg/kg	61		1	30	04/07/10	04/08/10 19:53	1034
Manganese	**15**	mg/kg K	3.0		1	1.5	04/07/10	04/08/10 19:53	1034
Mercury	ND	mg/kg	0.1		1	0.1	04/07/10	04/08/10 19:53	1034
Nickel	ND	mg/kg	3.0		1	1.5	04/07/10	04/08/10 19:53	1034
Potassium	**210**	mg/kg K	61		1	30	04/07/10	04/08/10 19:53	1034
Selenium	ND	mg/kg	3.0		1	1.5	04/07/10	04/08/10 19:53	1034
Silver	ND	mg/kg	3.0		1	1.5	04/07/10	04/08/10 19:53	1034
Sodium	ND	mg/kg	61		1	30	04/07/10	04/08/10 19:53	1034
Thallium	**0.31**	mg/kg B	0.6	J	1	0.3	04/07/10	04/08/10 19:53	1034
Vanadium	**7.1**	mg/kg K	3.0		1	1.5	04/07/10	04/08/10 19:53	1034
Zinc	ND	mg/kg	12		1	6.1	04/07/10	04/08/10 19:53	1034

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CERTIFICATE OF ANALYSIS

No: 10040606

ARGO Systems, Glen Burnie, MD

April 20, 2010

Project Name: NTCB
Project Location: Port Deposit
Project ID: 1462309

Sample ID: BG-8 **Date/Time Sampled: 04/05/2010 09:25** **PSS Sample ID: 10040606-002**
Matrix: SOIL **Date/Time Received: 04/06/2010 11:55** **% Solids: 75**

TAL Metals — Analytical Method: SW846 6020A — Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Aluminum	**8,200**	mg/kg	3,200		100	1,600	04/07/10	04/15/10 18:29	1034
Antimony	ND	mg/kg	3.2		1	1.6	04/07/10	04/08/10 20:24	1034
Arsenic	**3.3**	mg/kg	0.3		1	0.3	04/07/10	04/08/10 20:24	1034
Barium	**50**	mg/kg	3.2		1	1.6	04/07/10	04/08/10 20:24	1034
Beryllium	ND	mg/kg	3.2		1	1.6	04/07/10	04/08/10 20:24	1034
Cadmium	ND	mg/kg	3.2		1	1.6	04/07/10	04/08/10 20:24	1034
Calcium	**1,500**	mg/kg	65		1	32	04/07/10	04/08/10 20:24	1034
Chromium	**7.8**	mg/kg	3.2		1	1.6	04/07/10	04/08/10 20:24	1034
Cobalt	**3.3**	mg/kg	3.2		1	1.6	04/07/10	04/08/10 20:24	1034
Copper	**5.3**	mg/kg	3.2		1	1.6	04/07/10	04/08/10 20:24	1034
Iron	**6,600**	mg/kg	1,300		20	650	04/07/10	04/12/10 12:03	1034
Lead	**39**	mg/kg	3.2		1	1.6	04/07/10	04/08/10 20:24	1034
Magnesium	**670**	mg/kg	65		1	32	04/07/10	04/08/10 20:24	1034
Manganese	**150**	mg/kg K	3.2		1	1.6	04/07/10	04/08/10 20:24	1034
Mercury	**0.10**	mg/kg	0.1	J	1	0.1	04/07/10	04/08/10 20:24	1034
Nickel	**4.6**	mg/kg	3.2		1	1.6	04/07/10	04/08/10 20:24	1034
Potassium	**470**	mg/kg K	65		1	32	04/07/10	04/08/10 20:24	1034
Selenium	ND	mg/kg	3.2		1	1.6	04/07/10	04/08/10 20:24	1034
Silver	ND	mg/kg	3.2		1	1.6	04/07/10	04/08/10 20:24	1034
Sodium	ND	mg/kg	65		1	32	04/07/10	04/08/10 20:24	1034
Thallium	ND	mg/kg	0.6		1	0.3	04/07/10	04/08/10 20:24	1034
Vanadium	**17**	mg/kg K	3.2		1	1.6	04/07/10	04/08/10 20:24	1034
Zinc	**29**	mg/kg	13		1	6.5	04/07/10	04/08/10 20:24	1034

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CERTIFICATE OF ANALYSIS

No: 10040606
ARGO Systems, Glen Burnie, MD
April 20, 2010

Project Name: NTCB
Project Location: Port Deposit
Project ID: 1462309

Sample ID: BG-9 **Date/Time Sampled: 04/05/2010 09:30** **PSS Sample ID: 10040606-003**
Matrix: SOIL **Date/Time Received: 04/06/2010 11:55** **% Solids: 83**

TAL Metals — Analytical Method: SW846 6020A — Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Aluminum	**5,800**	mg/kg	500		20	250	04/07/10	04/16/10 21:23	1034
Antimony	ND	mg/kg	2.5		1	1.3	04/07/10	04/08/10 20:30	1034
Arsenic	**0.76**	mg/kg	0.3		1	0.3	04/07/10	04/08/10 20:30	1034
Barium	**16**	mg/kg	2.5		1	1.3	04/07/10	04/08/10 20:30	1034
Beryllium	ND	mg/kg	2.5		1	1.3	04/07/10	04/08/10 20:30	1034
Cadmium	ND	mg/kg	2.5		1	1.3	04/07/10	04/08/10 20:30	1034
Calcium	**240**	mg/kg	50		1	25	04/07/10	04/08/10 20:30	1034
Chromium	**2.7**	mg/kg	2.5		1	1.3	04/07/10	04/08/10 20:30	1034
Cobalt	ND	mg/kg	2.5		1	1.3	04/07/10	04/08/10 20:30	1034
Copper	ND	mg/kg	2.5		1	1.3	04/07/10	04/08/10 20:30	1034
Iron	**2,000**	mg/kg	50		1	25	04/07/10	04/08/10 20:30	1034
Lead	**7.0**	mg/kg	2.5		1	1.3	04/07/10	04/08/10 20:30	1034
Magnesium	**160**	mg/kg	50		1	25	04/07/10	04/08/10 20:30	1034
Manganese	**17**	mg/kg K	2.5		1	1.3	04/07/10	04/08/10 20:30	1034
Mercury	**0.26**	mg/kg	0.1		1	0.1	04/07/10	04/08/10 20:30	1034
Nickel	ND	mg/kg	2.5		1	1.3	04/07/10	04/08/10 20:30	1034
Potassium	**210**	mg/kg K	50		1	25	04/07/10	04/08/10 20:30	1034
Selenium	ND	mg/kg	2.5		1	1.3	04/07/10	04/08/10 20:30	1034
Silver	ND	mg/kg	2.5		1	1.3	04/07/10	04/08/10 20:30	1034
Sodium	ND	mg/kg	50		1	25	04/07/10	04/08/10 20:30	1034
Thallium	ND	mg/kg	0.5		1	0.3	04/07/10	04/08/10 20:30	1034
Vanadium	**7.3**	mg/kg K	2.5		1	1.3	04/07/10	04/08/10 20:30	1034
Zinc	ND	mg/kg	10		1	5	04/07/10	04/08/10 20:30	1034

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CERTIFICATE OF ANALYSIS

No: 10040606

ARGO Systems, Glen Burnie, MD

April 20, 2010

Project Name: NTCB
Project Location: Port Deposit
Project ID: 1462309

Sample ID: BG-1 **Date/Time Sampled: 04/05/2010 09:45** **PSS Sample ID: 10040606-004**
Matrix: SOIL **Date/Time Received: 04/06/2010 11:55** **% Solids: 81**

TAL Metals — Analytical Method: SW846 6020A — Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Aluminum	**13,000**	mg/kg	2,500		100	1,300	04/07/10	04/15/10 18:41	1034
Antimony	ND	mg/kg	2 5		1	1.3	04/07/10	04/08/10 20:36	1034
Arsenic	**1.9**	mg/kg	0 3		1	0.3	04/07/10	04/08/10 20:36	1034
Barium	**47**	mg/kg	2 5		1	1 3	04/07/10	04/08/10 20:36	1034
Beryllium	ND	mg/kg	2 5		1	1.3	04/07/10	04/08/10 20:36	1034
Cadmium	ND	mg/kg	2 5		1	1.3	04/07/10	04/08/10 20:36	1034
Calcium	**1,100**	mg/kg	51		1	25	04/07/10	04/08/10 20:36	1034
Chromium	**9.3**	mg/kg	2 5		1	1 3	04/07/10	04/08/10 20:36	1034
Cobalt	**5.3**	mg/kg	2 5		1	1 3	04/07/10	04/08/10 20:36	1034
Copper	**8.6**	mg/kg	2.5		1	1 3	04/07/10	04/08/10 20:36	1034
Iron	**12,000**	mg/kg	5,100		100	2,500	04/07/10	04/12/10 12:16	1034
Lead	**32**	mg/kg	2 5		1	1 3	04/07/10	04/08/10 20:36	1034
Magnesium	**2,500**	mg/kg	51		1	25	04/07/10	04/08/10 20:36	1034
Manganese	**400**	mg/kg K	250		100	130	04/07/10	04/12/10 12:16	1034
Mercury	**0.09**	mg/kg	0 1	J	1	0 1	04/07/10	04/08/10 20:36	1034
Nickel	**5.7**	mg/kg	2 5		1	1 3	04/07/10	04/08/10 20:36	1034
Potassium	**1,100**	mg/kg K	51		1	25	04/07/10	04/08/10 20:36	1034
Selenium	ND	mg/kg	2 5		1	1 3	04/07/10	04/08/10 20:36	1034
Silver	ND	mg/kg	2 5		1	1 3	04/07/10	04/08/10 20:36	1034
Sodium	**45**	mg/kg	51	J	1	25	04/07/10	04/08/10 20:36	1034
Thallium	ND	mg/kg	0 5		1	0 3	04/07/10	04/08/10 20:36	1034
Vanadium	**19**	mg/kg K	2 5		1	1.3	04/07/10	04/08/10 20:36	1034
Zinc	**35**	mg/kg	10		1	5.1	04/07/10	04/08/10 20:36	1034

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CERTIFICATE OF ANALYSIS

No: 10040606
ARGO Systems, Glen Burnie, MD
April 20, 2010

Project Name: NTCB
Project Location: Port Deposit
Project ID: 1462309

Sample ID: BG-2 **Date/Time Sampled: 04/05/2010 09:55** **PSS Sample ID: 10040606-005**
Matrix: SOIL **Date/Time Received: 04/06/2010 11:55** **% Solids: 75**

TAL Metals — Analytical Method: SW846 6020A — Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Aluminum	**17,000**	mg/kg	2,700		100	1,300	04/07/10	04/15/10 18:47	1034
Antimony	ND	mg/kg	2.7		1	1.3	04/07/10	04/08/10 21:01	1034
Arsenic	**5.1**	mg/kg	0.3		1	0.3	04/07/10	04/08/10 21:01	1034
Barium	**73**	mg/kg	2.7		1	1.3	04/07/10	04/08/10 21:01	1034
Beryllium	ND	mg/kg	2.7		1	1.3	04/07/10	04/09/10 15:47	1034
Cadmium	ND	mg/kg	2.7		1	1.3	04/07/10	04/08/10 21:01	1034
Calcium	**2,000**	mg/kg	53		1	27	04/07/10	04/08/10 21:01	1034
Chromium	**14**	mg/kg	2.7		1	1.3	04/07/10	04/08/10 21:01	1034
Cobalt	**7.2**	mg/kg	2.7		1	1.3	04/07/10	04/08/10 21:01	1034
Copper	**12**	mg/kg	2.7		1	1.3	04/07/10	04/08/10 21:01	1034
Iron	**9,700**	mg/kg	5,300		100	2,700	04/07/10	04/12/10 12:22	1034
Lead	**58**	mg/kg	2.7		1	1.3	04/07/10	04/08/10 21:01	1034
Magnesium	**4,200**	mg/kg	530		10	270	04/07/10	04/15/10 18:53	1034
Manganese	**270**	mg/kg K	270		100	130	04/07/10	04/12/10 12:22	1034
Mercury	**0.12**	mg/kg	0.1		1	0.1	04/07/10	04/08/10 21:01	1034
Nickel	**8.3**	mg/kg	2.7		1	1.3	04/07/10	04/08/10 21:01	1034
Potassium	**2,400**	mg/kg K	53		1	27	04/07/10	04/08/10 21:01	1034
Selenium	ND	mg/kg	2.7		1	1.3	04/07/10	04/08/10 21:01	1034
Silver	ND	mg/kg	2.7		1	1.3	04/07/10	04/08/10 21:01	1034
Sodium	**50**	mg/kg	53	J	1	27	04/07/10	04/08/10 21:01	1034
Thallium	ND	mg/kg	0.5		1	0.3	04/07/10	04/08/10 21:01	1034
Vanadium	**25**	mg/kg K	2.7		1	1.3	04/07/10	04/08/10 21:01	1034
Zinc	**64**	mg/kg	11		1	5.3	04/07/10	04/08/10 21:01	1034

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CERTIFICATE OF ANALYSIS

No: 10040606
ARGO Systems, Glen Burnie, MD
April 20, 2010

Project Name: NTCB
Project Location: Port Deposit
Project ID: 1462309

Sample ID: BG-3 **Date/Time Sampled: 04/05/2010 10:05** **PSS Sample ID: 10040606-006**
Matrix: SOIL **Date/Time Received: 04/06/2010 11:55** **% Solids: 77**

TAL Metals — Analytical Method: SW846 6020A — Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Aluminum	**24,000**	mg/kg	2,900		100	1,500	04/07/10	04/15/10 18:59	1034
Antimony	ND	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:08	1034
Arsenic	**5.5**	mg/kg	0.3		1	0.3	04/07/10	04/08/10 21:08	1034
Barium	**78**	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:08	1034
Beryllium	ND	mg/kg	2.9		1	1.5	04/07/10	04/09/10 15:53	1034
Cadmium	ND	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:08	1034
Calcium	**1,300**	mg/kg	59		1	29	04/07/10	04/08/10 21:08	1034
Chromium	**18**	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:08	1034
Cobalt	**8.5**	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:08	1034
Copper	**15**	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:08	1034
Iron	**20,000**	mg/kg	5,900		100	2,900	04/07/10	04/12/10 12:55	1034
Lead	**58**	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:08	1034
Magnesium	**4,700**	mg/kg	590		10	290	04/07/10	04/15/10 19:05	1034
Manganese	**710**	mg/kg K	290		100	150	04/07/10	04/12/10 12:55	1034
Mercury	**0.16**	mg/kg	0.1		1	0.1	04/07/10	04/08/10 21:08	1034
Nickel	**8.8**	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:08	1034
Potassium	**1,700**	mg/kg K	59		1	29	04/07/10	04/08/10 21:08	1034
Selenium	ND	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:08	1034
Silver	ND	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:08	1034
Sodium	**63**	mg/kg	59		1	29	04/07/10	04/08/10 21:08	1034
Thallium	ND	mg/kg	0.6		1	0.3	04/07/10	04/08/10 21:08	1034
Vanadium	**31**	mg/kg K	2.9		1	1.5	04/07/10	04/08/10 21:08	1034
Zinc	**60**	mg/kg	12		1	5.9	04/07/10	04/08/10 21:08	1034

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CERTIFICATE OF ANALYSIS

No: 10040606
ARGO Systems, Glen Burnie, MD
April 20, 2010

Project Name: NTCB
Project Location: Port Deposit
Project ID: 1462309

Sample ID: BG-10 **Date/Time Sampled: 04/05/2010 10:15** **PSS Sample ID: 10040606-007**
Matrix: SOIL **Date/Time Received: 04/06/2010 11:55** **% Solids: 84**

TAL Metals Analytical Method: SW846 6020A Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Aluminum	**27,000**	mg/kg	2,400		100	1,200	04/07/10	04/15/10 19:30	1034
Antimony	ND	mg/kg	2.4		1	1.2	04/07/10	04/08/10 21:14	1034
Arsenic	**7.2**	mg/kg	0.2		1	0.2	04/07/10	04/08/10 21:14	1034
Barium	**120**	mg/kg	2.4		1	1.2	04/07/10	04/08/10 21:14	1034
Beryllium	ND	mg/kg	2.4		1	1.2	04/07/10	04/09/10 15:59	1034
Cadmium	ND	mg/kg	2.4		1	1.2	04/07/10	04/08/10 21:14	1034
Calcium	**62**	mg/kg	48		1	24	04/07/10	04/08/10 21:14	1034
Chromium	**38**	mg/kg	2.4		1	1.2	04/07/10	04/08/10 21:14	1034
Cobalt	**4.0**	mg/kg	2.4		1	1.2	04/07/10	04/08/10 21:14	1034
Copper	**10**	mg/kg	2.4		1	1.2	04/07/10	04/08/10 21:14	1034
Iron	**28,000**	mg/kg	4,800		100	2,400	04/07/10	04/12/10 13:08	1034
Lead	**22**	mg/kg	2.4		1	1.2	04/07/10	04/08/10 21:14	1034
Magnesium	**1,300**	mg/kg	48		1	24	04/07/10	04/08/10 21:14	1034
Manganese	**89**	mg/kg	2.4	K	1	1.2	04/07/10	04/08/10 21:14	1034
Mercury	ND	mg/kg	0.1		1	0.05	04/07/10	04/08/10 21:14	1034
Nickel	**12**	mg/kg	2.4		1	1.2	04/07/10	04/08/10 21:14	1034
Potassium	**870**	mg/kg	48	K	1	24	04/07/10	04/08/10 21:14	1034
Selenium	ND	mg/kg	2.4		1	1.2	04/07/10	04/08/10 21:14	1034
Silver	ND	mg/kg	2.4		1	1.2	04/07/10	04/08/10 21:14	1034
Sodium	ND	mg/kg	48		1	24	04/07/10	04/08/10 21:14	1034
Thallium	ND	mg/kg	0.5		1	0.2	04/07/10	04/08/10 21:14	1034
Vanadium	**51**	mg/kg	2.4	K	1	1.2	04/07/10	04/08/10 21:14	1034
Zinc	**26**	mg/kg	9.7		1	4.8	04/07/10	04/08/10 21:14	1034

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CERTIFICATE OF ANALYSIS

No: 10040606

ARGO Systems, Glen Burnie, MD

April 20, 2010

Project Name: NTCB
Project Location: Port Deposit
Project ID: 1462309

Sample ID: BG-11 **Date/Time Sampled: 04/05/2010 10:20** **PSS Sample ID: 10040606-008**
Matrix: SOIL **Date/Time Received: 04/06/2010 11:55** **% Solids: 86**

TAL Metals — Analytical Method: SW846 6020A — Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Aluminum	**11,000**	mg/kg	2,900		100	1,500	04/07/10	04/15/10 19:36	1034
Antimony	ND	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:20	1034
Arsenic	**2.9**	mg/kg	0.3		1	0.3	04/07/10	04/08/10 21:20	1034
Barium	**45**	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:20	1034
Beryllium	ND	mg/kg	2.9		1	1.5	04/07/10	04/09/10 16:05	1034
Cadmium	ND	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:20	1034
Calcium	**70**	mg/kg	58		1	29	04/07/10	04/08/10 21:20	1034
Chromium	**15**	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:20	1034
Cobalt	**2.9**	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:20	1034
Copper	**3.9**	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:20	1034
Iron	**10,000**	mg/kg	5,800		100	2,900	04/07/10	04/12/10 13:14	1034
Lead	**8.9**	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:20	1034
Magnesium	**740**	mg/kg	58		1	29	04/07/10	04/08/10 21:20	1034
Manganese	**150**	mg/kg K	2.9		1	1.5	04/07/10	04/08/10 21:20	1034
Mercury	ND	mg/kg	0.1		1	0.1	04/07/10	04/08/10 21:20	1034
Nickel	**5.8**	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:20	1034
Potassium	**370**	mg/kg K	58		1	29	04/07/10	04/08/10 21:20	1034
Selenium	ND	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:20	1034
Silver	ND	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:20	1034
Sodium	ND	mg/kg	58		1	29	04/07/10	04/08/10 21:20	1034
Thallium	ND	mg/kg	0.6		1	0.3	04/07/10	04/08/10 21:20	1034
Vanadium	**23**	mg/kg K	2.9		1	1.5	04/07/10	04/08/10 21:20	1034
Zinc	**15**	mg/kg B	12		1	5.8	04/07/10	04/08/10 21:20	1034

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CERTIFICATE OF ANALYSIS

No: 10040606
ARGO Systems, Glen Burnie, MD
April 20, 2010

Project Name: NTCB
Project Location: Port Deposit
Project ID: 1462309

Sample ID: BG-12 **Date/Time Sampled: 04/05/2010 10:25** **PSS Sample ID: 10040606-009**
Matrix: SOIL **Date/Time Received: 04/06/2010 11:55** **% Solids: 84**

TAL Metals — Analytical Method: SW846 6020A — Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Aluminum	**12,000**	mg/kg	2,500		100	1,200	04/07/10	04/15/10 19:43	1034
Antimony	ND	mg/kg	2.5		1	1.2	04/07/10	04/08/10 21:26	1034
Arsenic	**3.7**	mg/kg	0.2		1	0.2	04/07/10	04/08/10 21:26	1034
Barium	**41**	mg/kg	2.5		1	1.2	04/07/10	04/08/10 21:26	1034
Beryllium	ND	mg/kg	2.5		1	1.2	04/07/10	04/09/10 16:11	1034
Cadmium	ND	mg/kg	2.5		1	1.2	04/07/10	04/08/10 21:26	1034
Calcium	**55**	mg/kg	50		1	25	04/07/10	04/08/10 21:26	1034
Chromium	**17**	mg/kg	2.5		1	1.2	04/07/10	04/08/10 21:26	1034
Cobalt	**1.7**	mg/kg	2.5	J	1	1.2	04/07/10	04/08/10 21:26	1034
Copper	**5.1**	mg/kg	2.5		1	1.2	04/07/10	04/08/10 21:26	1034
Iron	**12,000**	mg/kg	5,000		100	2,500	04/07/10	04/12/10 13:21	1034
Lead	**16**	mg/kg	2.5		1	1.2	04/07/10	04/08/10 21:26	1034
Magnesium	**710**	mg/kg	50		1	25	04/07/10	04/08/10 21:26	1034
Manganese	**71**	mg/kg K	2.5		1	1.2	04/07/10	04/08/10 21:26	1034
Mercury	ND	mg/kg	0.1		1	0.05	04/07/10	04/08/10 21:26	1034
Nickel	**6.1**	mg/kg	2.5		1	1.2	04/07/10	04/08/10 21:26	1034
Potassium	**380**	mg/kg K	50		1	25	04/07/10	04/08/10 21:26	1034
Selenium	ND	mg/kg	2.5		1	1.2	04/07/10	04/08/10 21:26	1034
Silver	ND	mg/kg	2.5		1	1.2	04/07/10	04/08/10 21:26	1034
Sodium	ND	mg/kg	50		1	25	04/07/10	04/08/10 21:26	1034
Thallium	ND	mg/kg	0.5		1	0.2	04/07/10	04/08/10 21:26	1034
Vanadium	**35**	mg/kg K	2.5		1	1.2	04/07/10	04/08/10 21:26	1034
Zinc	**17**	mg/kg B	9.9		1	5	04/07/10	04/08/10 21:26	1034

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CERTIFICATE OF ANALYSIS

No: 10040606

ARGO Systems, Glen Burnie, MD

April 20, 2010

Project Name: NTCB
Project Location: Port Deposit
Project ID: 1462309

Sample ID: BG-4 **Date/Time Sampled: 04/05/2010 10:40** **PSS Sample ID: 10040606-010**
Matrix: SOIL **Date/Time Received: 04/06/2010 11:55** **% Solids: 83**

TAL Metals — Analytical Method: SW846 6020A — Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Aluminum	**21,000**	mg/kg	2,800		100	1,400	04/07/10	04/15/10 19:49	1034
Antimony	ND	mg/kg	2.8		1	1.4	04/07/10	04/08/10 21:33	1034
Arsenic	**5.1**	mg/kg	0.3		1	0.3	04/07/10	04/08/10 21:33	1034
Barium	**120**	mg/kg	2.8		1	1.4	04/07/10	04/08/10 21:33	1034
Beryllium	ND	mg/kg	2.8		1	1.4	04/07/10	04/09/10 16:20	1034
Cadmium	ND	mg/kg	2.8		1	1.4	04/07/10	04/08/10 21:33	1034
Calcium	**940**	mg/kg	56		1	28	04/07/10	04/08/10 21:33	1034
Chromium	**12**	mg/kg	2.8		1	1.4	04/07/10	04/08/10 21:33	1034
Cobalt	**6.8**	mg/kg	2.8		1	1.4	04/07/10	04/08/10 21:33	1034
Copper	**6.2**	mg/kg	2.8		1	1.4	04/07/10	04/08/10 21:33	1034
Iron	**7,900**	mg/kg	5,600		100	2,800	04/07/10	04/12/10 13:27	1034
Lead	**13**	mg/kg	2.8		1	1.4	04/07/10	04/08/10 21:33	1034
Magnesium	**1,400**	mg/kg	56		1	28	04/07/10	04/08/10 21:33	1034
Manganese	**450**	mg/kg	280	K	100	140	04/07/10	04/12/10 13:27	1034
Mercury	ND	mg/kg	0.1		1	0.1	04/07/10	04/08/10 21:33	1034
Nickel	**6.0**	mg/kg	2.8		1	1.4	04/07/10	04/08/10 21:33	1034
Potassium	**1,100**	mg/kg	56	K	1	28	04/07/10	04/08/10 21:33	1034
Selenium	ND	mg/kg	2.8		1	1.4	04/07/10	04/08/10 21:33	1034
Silver	ND	mg/kg	2.8		1	1.4	04/07/10	04/08/10 21:33	1034
Sodium	ND	mg/kg	56		1	28	04/07/10	04/08/10 21:33	1034
Thallium	ND	mg/kg	0.6		1	0.3	04/07/10	04/08/10 21:33	1034
Vanadium	**17**	mg/kg	2.8	K	1	1.4	04/07/10	04/08/10 21:33	1034
Zinc	**31**	mg/kg	11		1	5.6	04/07/10	04/08/10 21:33	1034

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CERTIFICATE OF ANALYSIS

No: 10040606
ARGO Systems, Glen Burnie, MD
April 20, 2010

Project Name: NTCB
Project Location: Port Deposit
Project ID: 1462309

Sample ID: BG-5 **Date/Time Sampled: 04/05/2010 10:50** **PSS Sample ID: 10040606-011**
Matrix: SOIL **Date/Time Received: 04/06/2010 11:55** **% Solids: 83**

TAL Metals — Analytical Method: SW846 6020A — Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Aluminum	**31,000**	mg/kg	2,700		100	1,400	04/07/10	04/15/10 19:55	1034
Antimony	ND	mg/kg	2.7		1	1.4	04/07/10	04/08/10 21:39	1034
Arsenic	**4.7**	mg/kg	0.3		1	0.3	04/07/10	04/08/10 21:39	1034
Barium	**110**	mg/kg	2.7		1	1.4	04/07/10	04/08/10 21:39	1034
Beryllium	ND	mg/kg	2.7		1	1.4	04/07/10	04/09/10 16:27	1034
Cadmium	ND	mg/kg	2.7		1	1.4	04/07/10	04/08/10 21:39	1034
Calcium	**1,100**	mg/kg	54		1	27	04/07/10	04/08/10 21:39	1034
Chromium	**27**	mg/kg	2.7		1	1.4	04/07/10	04/08/10 21:39	1034
Cobalt	**6.9**	mg/kg	2.7		1	1.4	04/07/10	04/08/10 21:39	1034
Copper	**14**	mg/kg	2.7		1	1.4	04/07/10	04/08/10 21:39	1034
Iron	**29,000**	mg/kg	5,400		100	2,700	04/07/10	04/12/10 13:33	1034
Lead	**16**	mg/kg	2.7		1	1.4	04/07/10	04/08/10 21:39	1034
Magnesium	**2,400**	mg/kg	54		1	27	04/07/10	04/08/10 21:39	1034
Manganese	**400**	mg/kg K	270		100	140	04/07/10	04/12/10 13:33	1034
Mercury	ND	mg/kg	0.1		1	0.1	04/07/10	04/08/10 21:39	1034
Nickel	**9.9**	mg/kg	2.7		1	1.4	04/07/10	04/08/10 21:39	1034
Potassium	**2,300**	mg/kg K	54		1	27	04/07/10	04/08/10 21:39	1034
Selenium	ND	mg/kg	2.7		1	1.4	04/07/10	04/08/10 21:39	1034
Silver	ND	mg/kg	2.7		1	1.4	04/07/10	04/08/10 21:39	1034
Sodium	**33**	mg/kg	54	J	1	27	04/07/10	04/08/10 21:39	1034
Thallium	ND	mg/kg	0.5		1	0.3	04/07/10	04/08/10 21:39	1034
Vanadium	**39**	mg/kg K	2.7		1	1.4	04/07/10	04/08/10 21:39	1034
Zinc	**43**	mg/kg	11		1	5.4	04/07/10	04/08/10 21:39	1034

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CERTIFICATE OF ANALYSIS

No: 10040606

ARGO Systems, Glen Burnie, MD

April 20, 2010

Project Name: NTCB
Project Location: Port Deposit
Project ID: 1462309

Sample ID: BG-6 **Date/Time Sampled: 04/05/2010 11:00** **PSS Sample ID: 10040606-012**
Matrix: SOIL **Date/Time Received: 04/06/2010 11:55** **% Solids: 79**

TAL Metals — Analytical Method: SW846 6020A — Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Aluminum	**21,000**	mg/kg	3,100		100	1,600	04/07/10	04/15/10 20:01	1034
Antimony	ND	mg/kg	3 1		1	1.6	04/07/10	04/08/10 21:45	1034
Arsenic	**5.0**	mg/kg	0.3		1	0.3	04/07/10	04/08/10 21:45	1034
Barium	**120**	mg/kg	3.1		1	1.6	04/07/10	04/08/10 21:45	1034
Beryllium	ND	mg/kg	3 1		1	1 6	04/07/10	04/09/10 16:53	1034
Cadmium	ND	mg/kg	3 1		1	1 6	04/07/10	04/08/10 21:45	1034
Calcium	**990**	mg/kg	62		1	31	04/07/10	04/08/10 21:45	1034
Chromium	**11**	mg/kg	3 1		1	1 6	04/07/10	04/08/10 21:45	1034
Cobalt	**6.3**	mg/kg	3 1		1	1.6	04/07/10	04/08/10 21:45	1034
Copper	**8.1**	mg/kg	3.1		1	1.6	04/07/10	04/08/10 21:45	1034
Iron	**14,000**	mg/kg	6,200		100	3,100	04/07/10	04/12/10 13:40	1034
Lead	**19**	mg/kg	3.1		1	1.6	04/07/10	04/08/10 21:45	1034
Magnesium	**1,600**	mg/kg	62		1	31	04/07/10	04/08/10 21:45	1034
Manganese	**700**	mg/kg K	310		100	160	04/07/10	04/12/10 13:40	1034
Mercury	**0.07**	mg/kg	0 1	J	1	0.1	04/07/10	04/08/10 21:45	1034
Nickel	**6.9**	mg/kg	3 1		1	1.6	04/07/10	04/08/10 21:45	1034
Potassium	**1,300**	mg/kg K	62		1	31	04/07/10	04/08/10 21:45	1034
Selenium	ND	mg/kg	3.1		1	1 6	04/07/10	04/08/10 21:45	1034
Silver	ND	mg/kg	3.1		1	1.6	04/07/10	04/08/10 21:45	1034
Sodium	ND	mg/kg	62		1	31	04/07/10	04/08/10 21:45	1034
Thallium	ND	mg/kg	0 6		1	0.3	04/07/10	04/08/10 21:45	1034
Vanadium	**19**	mg/kg K	3 1		1	1.6	04/07/10	04/08/10 21:45	1034
Zinc	**44**	mg/kg	13		1	6 2	04/07/10	04/08/10 21:45	1034

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CERTIFICATE OF ANALYSIS

No: 10040606

ARGO Systems, Glen Burnie, MD

April 20, 2010

Project Name: NTCB
Project Location: Port Deposit
Project ID: 1462309

Sample ID: Dup-1 **Date/Time Sampled: 04/05/2010 00:00** **PSS Sample ID: 10040606-013**
Matrix: SOIL **Date/Time Received: 04/06/2010 11:55** **% Solids: 83**

TAL Metals — Analytical Method: SW846 6020A — Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Aluminum	**14,000**	mg/kg	2,400		100	1,200	04/07/10	04/15/10 20:07	1034
Antimony	ND	mg/kg	2.4		1	1.2	04/07/10	04/08/10 21:52	1034
Arsenic	**4.2**	mg/kg	0.2		1	0.2	04/07/10	04/08/10 21:52	1034
Barium	**48**	mg/kg	2.4		1	1.2	04/07/10	04/08/10 21:52	1034
Beryllium	ND	mg/kg	2.4		1	1.2	04/07/10	04/09/10 16:59	1034
Cadmium	ND	mg/kg	2.4		1	1.2	04/07/10	04/08/10 21:52	1034
Calcium	**1,100**	mg/kg	49		1	24	04/07/10	04/08/10 21:52	1034
Chromium	**11**	mg/kg	2.4		1	1.2	04/07/10	04/08/10 21:52	1034
Cobalt	**6.4**	mg/kg	2.4		1	1.2	04/07/10	04/08/10 21:52	1034
Copper	**10**	mg/kg	2.4		1	1.2	04/07/10	04/08/10 21:52	1034
Iron	**17,000**	mg/kg	4,900		100	2,400	04/07/10	04/12/10 13:47	1034
Lead	**39**	mg/kg	2.4		1	1.2	04/07/10	04/08/10 21:52	1034
Magnesium	**3,700**	mg/kg	490		10	240	04/07/10	04/15/10 20:13	1034
Manganese	**270**	mg/kg K	240		100	120	04/07/10	04/12/10 13:47	1034
Mercury	**0.07**	mg/kg	0.1	J	1	0.05	04/07/10	04/08/10 21:52	1034
Nickel	**7.1**	mg/kg	2.4		1	1.2	04/07/10	04/08/10 21:52	1034
Potassium	**1,900**	mg/kg K	49		1	24	04/07/10	04/08/10 21:52	1034
Selenium	ND	mg/kg	2.4		1	1.2	04/07/10	04/08/10 21:52	1034
Silver	ND	mg/kg	2.4		1	1.2	04/07/10	04/08/10 21:52	1034
Sodium	**37**	mg/kg	49	J	1	24	04/07/10	04/08/10 21:52	1034
Thallium	ND	mg/kg	0.5		1	0.2	04/07/10	04/08/10 21:52	1034
Vanadium	**21**	mg/kg K	2.4		1	1.2	04/07/10	04/08/10 21:52	1034
Zinc	**37**	mg/kg	9.7		1	4.9	04/07/10	04/08/10 21:52	1034

MW 6/3/10

 Final Ver 1.000

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ROUTE 40 WEST
BALTIMORE, MD 21228
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800-932-9047
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PHASE SEPARATION SCIENCE, INC.

14

CERTIFICATE OF ANALYSIS

No: 10040606
ARGO Systems, Glen Burnie, MD
April 20, 2010

Project Name: NTCB
Project Location: Port Deposit
Project ID: 1462309

Sample ID: Dup-2 **Date/Time Sampled: 04/05/2010 00:00** **PSS Sample ID: 10040606-014**
Matrix: SOIL **Date/Time Received: 04/06/2010 11:55** **% Solids: 81**

TAL Metals — Analytical Method: SW846 6020A — Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Aluminum	**20,000**	mg/kg	2,900		100	1,500	04/07/10	04/15/10 20:19	1034
Antimony	ND	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:58	1034
Arsenic	**4.6**	mg/kg	0.3		1	0.3	04/07/10	04/08/10 21:58	1034
Barium	**96**	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:58	1034
Beryllium	ND	mg/kg	2.9		1	1.5	04/07/10	04/09/10 17:05	1034
Cadmium	ND	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:58	1034
Calcium	**820**	mg/kg	58		1	29	04/07/10	04/08/10 21:58	1034
Chromium	**11**	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:58	1034
Cobalt	**5.9**	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:58	1034
Copper	**9.1**	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:58	1034
Iron	**14,000**	mg/kg	5,800		100	2,900	04/07/10	04/12/10 14:18	1034
Lead	**25**	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:58	1034
Magnesium	**1,600**	mg/kg	58		1	29	04/07/10	04/08/10 21:58	1034
Manganese	**520**	mg/kg K	290		100	150	04/07/10	04/12/10 14:18	1034
Mercury	**0.11**	mg/kg	0.1	J	1	0.1	04/07/10	04/08/10 21:58	1034
Nickel	**7.0**	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:58	1034
Potassium	**1,500**	mg/kg K	58		1	29	04/07/10	04/08/10 21:58	1034
Selenium	ND	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:58	1034
Silver	ND	mg/kg	2.9		1	1.5	04/07/10	04/08/10 21:58	1034
Sodium	ND	mg/kg	58		1	29	04/07/10	04/08/10 21:58	1034
Thallium	ND	mg/kg	0.6		1	0.3	04/07/10	04/08/10 21:58	1034
Vanadium	**21**	mg/kg K	2.9		1	1.5	04/07/10	04/08/10 21:58	1034
Zinc	**52**	mg/kg	12		1	5.8	04/07/10	04/08/10 21:58	1034

WJ 6/3/10

 Final Ver 1.000

ENVIRONMENTAL
Data Services, Inc.

ARSENIC AND LEAD

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10061605

Client: ARGO Systems, Glen Burnie, MD Date: October 11, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1*	F-6	10061605-001	Soil
2	F-78	10061605-002	Soil
3	TG2-2	10061605-003	Soil
4	TG2-4	10061605-004	Soil
5	TG3-8	10061605-005	Soil
5MS	TG3-8MS	10061605-005MS	Soil
5MSD	TG3-8MSD	10061605-005MSD	Soil
6	TG3-14	10061605-006	Soil
7	TG3-17	10061605-007	Soil
8	TG3-18	10061605-008	Soil
9	TG5-3	10061605-009	Soil
10	TG5-4	10061605-010	Soil
11	TG7-7	10061605-011	Soil
12	TG7-11	10061605-012	Soil
13	TG7-12	10061605-013	Soil
14	TG7-17	10061605-014	Soil
15	TG9-2	10061605-015	Soil
16	TG9-3	10061605-016	Soil
17	TG11-2	10061605-017	Soil
17MS	TG11-2MS	10061605-017MS	Soil
17MSD	TG11-2MSD	10061605-017MSD	Soil
18*	TG12-2	10061605-018	Soil
19*	TG12-3	10061605-019	Soil
20	DUP-GC-14	10061605-020	Soil
21	DUP-GC-15	10061605-021	Soil

** - Lead only*

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 180 days for arsenic and lead.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier	Affected Samples
5 (Batch 83149)	Lead	201%/155%/OK	K	1-8, 18, 19
17 (Batch 83203)	Arsenic	41%/65%/45	J/UL	9-17, 20, 21

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate results are summarized below.

Compound	TG-9-2 mg/kg	DUP-GC-14 mg/kg	RPD	Qualifier
Arsenic	98	59	50%	None
Lead	290	200	37%	None

Compound	TG-9-3 mg/kg	DUP-GC-15 mg/kg	RPD	Qualifier
Arsenic	52	31	51%	None
Lead	94	160	52%	None

Compound Quantitation - EDS Sample IDs 9 & 10 were analyzed at a 10X dilution due to high concentrations of lead.

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

F-6

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10061605

Matrix (soil/water): SOIL Lab Sample ID: 10061605-001

Level (low/med): LOW Date Received: 06/16/2010

% Solids: 79 Batch #: 83149

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7439-92-1	Lead	100		~~N~~	MS

K

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

uw
10/11/10

FORM IA - IN SW6020

2

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

F-78

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10061605

Matrix (soil/water): SOIL Lab Sample ID: 10061605-002

Level (low/med): LOW Date Received: 06/16/2010

% Solids: 77 Batch #: 83149

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	13			MS
7439-92-1	Lead	52		~~N~~	MS K

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

mw 10/11/10

FORM IA - IN SW6020

3

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

IG2-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10061605

Matrix (soil/water): SOIL Lab Sample ID: 10061605-003

Level (low/med): LOW Date Received: 06/16/2010

% Solids: 73 Batch #: 83149

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	30			MS
7439-92-1	Lead	200		~~N~~	MS K

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

AW
10/19/10

FORM IA - IN SW6020

4

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

TG2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10061605

Matrix (soil/water): SOIL Lab Sample ID: 10061605-004

Level (low/med): LOW Date Received: 06/16/2010

% Solids: 74 Batch #: 83149

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	33			MS
7439-92-1	Lead	190		~~N~~	MS K

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
10/11/10

FORM IA - IN SW6020

5

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG3-8 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10061605

Matrix (soil/water): SOIL Lab Sample ID: 10061605-005

Level (low/med): LOW Date Received: 06/16/2010

% Solids: 80 Batch #: 83149

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	14			MS
7439-92-1	Lead	47		~~N~~	MS K

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
10/11/10

6

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

TG3-14

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10061605

Matrix (soil/water): SOIL Lab Sample ID: 10061605-006

Level (low/med): LOW Date Received: 06/16/2010

% Solids: 83 Batch #: 83149

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	56			MS
7439-92-1	Lead	220		N	MS K

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
10/11/10

FORM IA - IN SW6020

7

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

TG3-17

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10061605

Matrix (soil/water): SOIL Lab Sample ID: 10061605-007

Level (low/med): LOW Date Received: 06/16/2010

% Solids: 80 Batch #: 83149

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	30			MS
7439-92-1	Lead	110		~~N~~	MS K

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

mw
10/11/10

8

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

TG3-18

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10061605

Matrix (soil/water): SOIL Lab Sample ID: 10061605-008

Level (low/med): LOW Date Received: 06/16/2010

% Solids: 80 Batch #: 83149

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-38-2	Arsenic	63			MS	
7439-92-1	Lead	260		~~N~~	MS	K

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
10/11/10

FORM IA - IN SW6020

9

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

IG5-3

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10061605

Matrix (soil/water): SOIL Lab Sample ID: 10061605-009

Level (low/med): LOW Date Received: 06/16/2010

% Solids: 83 Batch #: 83203

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	94		~~N~~	MS J
7439-92-1	Lead	330		~~N~~	MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
10/11/10

10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

TG5-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10061605

Matrix (soil/water): SOIL Lab Sample ID: 10061605-010

Level (low/med): LOW Date Received: 06/16/2010

% Solids: 82 Batch #: 83203

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-38-2	Arsenic	74		~~N~~	MS	J
7439-92-1	Lead	300		~~N~~	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
10/11/10

FORM IA - IN SW6020

USEPA - CLP
IA- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

TG7-7

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10061605

Matrix (soil/water): SOIL Lab Sample ID: 10061605-011

Level (low/med): LOW Date Received: 06/16/2010

% Solids: 83 Batch #: 83203

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	24		~~N~~ J	MS
7439-92-1	Lead	73		~~N~~	MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

dw
10/11/10

12

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

IG7-11

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10061605

Matrix (soil/water): SOIL Lab Sample ID: 10061605-012

Level (low/med): LOW Date Received: 06/16/2010

% Solids: 82 Batch #: 83203

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	22		~~N~~ J	MS
7439-92-1	Lead	100		N	MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
10/11/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG7-12

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10061605

Matrix (soil/water): SOIL Lab Sample ID: 10061605-013

Level (low/med): LOW Date Received: 06/16/2010

% Solids: 77 Batch #: 83203

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-38-2	Arsenic	73		~~N~~	MS	J
7439-92-1	Lead	220		~~N~~	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
10/11/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

IG7-17

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10061605

Matrix (soil/water): SOIL Lab Sample ID: 10061605-014

Level (low/med): LOW Date Received: 06/16/2010

% Solids: 81 Batch #: 83203

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-38-2	Arsenic	120		~~N~~	MS	J
7439-92-1	Lead	91		~~N~~	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
10/11/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG9-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10061605
Matrix (soil/water): SOIL Lab Sample ID: 10061605-015
Level (low/med): LOW Date Received: 06/16/2010
% Solids: 83 Batch #: 83203

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	98		~~N~~ J	MS
7439-92-1	Lead	290		~~N~~	MS

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

MJ
10/11/10

16

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

IG9-3

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10061605

Matrix (soil/water): SOIL Lab Sample ID: 10061605-016

Level (low/med): LOW Date Received: 06/16/2010

% Solids: 82 Batch #: 83203

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	52		~~N~~	MS J
7439-92-1	Lead	94		~~N~~	MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
10/11/10

FORM IA - IN SW6020

17

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG11-2 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10061605

Matrix (soil/water): SOIL Lab Sample ID: 10061605-017

Level (low/med): LOW Date Received: 06/16/2010

% Solids: 80 Batch #: 83203

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	31		~~N~~	MS
7439-92-1	Lead	100		~~N~~	MS

J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
10/11/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

IG12-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10061605

Matrix (soil/water): SOIL Lab Sample ID: 10061605-018

Level (low/med): LOW Date Received: 06/16/2010

% Solids: 83 Batch #: 83149

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7439-92-1	Lead	73		~~N~~	MS

K

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
10/11/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

TG12-3

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No.: 10061605

Matrix (soil/water): SOIL Lab Sample ID: 10061605-019

Level (low/med): LOW Date Received: 06/16/2010

% Solids: 79 Batch #: 83149

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	130		N	MS

K

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
10/11/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-GC-14

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10061605
Matrix (soil/water): SOIL Lab Sample ID: 10061605-020
Level (low/med): LOW Date Received: 06/16/2010
% Solids: 81 Batch #: 83203

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-38-2	Arsenic	59		~~N~~	MS	J
7439-92-1	Lead	200		~~N~~	MS	

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

NW
10/11/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-GC-15

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10061605

Matrix (soil/water): SOIL Lab Sample ID: 10061605-021

Level (low/med): LOW Date Received: 06/16/2010

% Solids: 80 Batch #: 83203

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	31		~~N~~ J	MS
7439-92-1	Lead	160		~~N~~	MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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ENVIRONMENTAL
Data Services, Inc.

PESTICIDES

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10052714

Client: ARGO Systems, Glen Burnie, MD Date: October 11, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	F-17	10052714-036	Soil
2	F-55	10052714-037	Soil
3	TG10-6	10052714-038	Soil
4	TG10-10	10052714-039	Soil
5	TG10-11	10052714-040	Soil
6	TG10-2	10052714-041	Soil
7	TG10-14	10052714-042	Soil
8	TG10-9	10052714-043	Soil
9	TG10-4	10052714-044	Soil
9MS	TG10-4MS	10052714-044MS	Soil
9MSD	TG10-4MSD	10052714-044MSD	Soil
10	F-47	10052714-045	Soil
11	TG8-14	10052714-046	Soil
12	TG8-13	10052714-047	Soil
13	TG8-8	10052714-048	Soil
14	TG8-9	10052714-049	Soil
15	TG8-4	10052714-050	Soil
16	TG8-5	10052714-051	Soil
17	TG8-10	10052714-052	Soil
18	F-40	10052714-053	Soil
19	TG9-3	10052714-054	Soil
20	TG9-2	10052714-055	Soil
21	F-27	10052714-056	Soil
22	F-21	10052714-057	Soil
23	F-16	10052714-058	Soil
24	F-30	10052714-059	Soil
25	F-51	10052714-060	Soil
26	F-58	10052714-061	Soil
26MS	F-58MS	10052714-061MS	Soil
26MSD	F-58MSD	10052714-061MSD	Soil
27	F-65	10052714-062	Soil
28	DUP-GC-10	10052714-066	Soil
29	DUP-GC-11	10052714-067	Soil
30	DUP-GC-12	10052714-068	Soil
31	TG4-8	10052714-069	Soil

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
32	TG4-14	10052714-070	Soil
33	TG12-3	10052714-071	Soil
34	EB-13	10052714-072	Water
35	DUP-GC-13	10052714-073	Soil
36	TG4-7	10052714-081	Soil
37	TG4-13	10052714-082	Soil
38	TG4-6	10052714-083	Soil
39	TG4-12	10052714-084	Soil
40	TG4-5	10052714-085	Soil
41	TG4-11	10052714-086	Soil
42	F-69	10052714-087	Soil
43	F-76	10052714-088	Soil
44	F-8	10052714-089	Soil
45	TG12-2	10052714-090	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 7 days for water samples, 14 days for soil samples, and analyzed within 40 days.

Instrument performance - All 4,4'-DDT/endrin % breakdown, resolution check mixture and PEMs were within criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD values.

Calibration Verification - The continuing calibrations exhibited acceptable %D values.

Surrogates - All samples exhibited acceptable surrogate recoveries except the following.

Sample ID	Surrogate	%R	Qualifier
20	DCB1	180%	J - Positive Results

MS/MSD - The MS/MSD samples exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level mg/kg	Qualifier	Affected Samples
EB-13	None-ND	-	-	-	-

Field Duplicates - Field duplicate results are summarized below.

Compound	F-17 ug/kg	DUP-GC-10 ug/kg	RPD	Qualifier
alpha-Chlordane	270	200	30%	None
gamma-Chlordane	190	140	30%	None

Compound	F-30 ug/kg	DUP-GC-11 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	TG8-13 ug/kg	DUP-GC-12 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	TG12-3 ug/kg	DUP-GC-13 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound Identification - Retention times were acceptable and no further action was taken.

Compound Quantitation - No discrepancies were identified.

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F-17

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ Mod Ref No _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-036

Sample wt/vol: 10.38 (g/mL): g Lab File ID: 10060417.D

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/01/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 10.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82820

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	240	U
72-55-9	4,4-DDE	240	U
50-29-3	4,4-DDT	240	U
309-00-2	Aldrin	240	U
319-84-6	alpha-BHC	240	U
5103-71-9	alpha-Chlordane	270	
319-85-7	beta-BHC	240	U
319-86-8	delta-BHC	240	U
60-57-1	Dieldrin	240	U
959-98-8	Endosulfan I	240	U
33213-65-9	Endosulfan II	240	U
1031-07-8	Endosulfan sulfate	240	U
72-20-8	Endrin	240	U
7421-93-4	Endrin aldehyde	240	U
53494-70-5	Endrin ketone	240	U
58-89-9	gamma-BHC (Lindane)	240	U
5103-74-2	gamma-Chlordane	190	J
76-44-8	Heptachlor	240	U
1024-57-3	Heptachlor epoxide	240	U
72-43-5	Methoxychlor	240	U
8001-35-2	Toxaphene	2,400	U

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F-55

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod Ref No _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-037

Sample wt/vol: 10.26 (g/mL): g Lab File ID: 10060393.D

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/01/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 06/04/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82820

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	25	U
72-55-9	4,4-DDE	25	U
50-29-3	4,4-DDT	25	U
309-00-2	Aldrin	25	U
319-84-6	alpha-BHC	25	U
5103-71-9	alpha-Chlordane	25	U
319-85-7	beta-BHC	25	U
319-86-8	delta-BHC	25	U
60-57-1	Dieldrin	25	U
959-98-8	Endosulfan I	25	U
33213-65-9	Endosulfan II	25	U
1031-07-8	Endosulfan sulfate	25	U
72-20-8	Endrin	25	U
7421-93-4	Endrin aldehyde	25	U
53494-70-5	Endrin ketone	25	U
58-89-9	gamma-BHC (Lindane)	25	U
5103-74-2	gamma-Chlordane	25	U
76-44-8	Heptachlor	25	U
1024-57-3	Heptachlor epoxide	25	U
72-43-5	Methoxychlor	25	U
8001-35-2	Toxaphene	250	U

AW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG10-6

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod Ref No. _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-038

Sample wt/vol: 10.27 (g/mL): g Lab File ID: 10060394.D

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction: (Type) SONC Date Extracted: 06/01/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

hw 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG10-10

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod Ref No. _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-039

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10060396.D

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/01/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG10-11

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod Ref No. _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-040

Sample wt/vol: 10.27 (g/mL): g Lab File ID: 10060397.D

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction: (Type) SONC Date Extracted: 06/01/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 06/04/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82820

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	23	U
50-29-3	4,4-DDT	23	U
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U

NW 10/12/10

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG10-2

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-041

Sample wt/vol: 10.45 (g/mL): g Lab File ID: 10060398.D

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction: (Type) SONC Date Extracted: 06/01/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

RES 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG10-14

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-042

Sample wt/vol: 10.56 (g/mL): g Lab File ID: 10060399.D

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/01/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82820

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG10-9

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ Mod Ref No _____ SDG No.:10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-043

Sample wt/vol: 10.29 (g/mL): g Lab File ID: 10060400.D

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/01/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

MW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG10-4 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-044

Sample wt/vol: 10.22 (g/mL): g Lab File ID: 10060340.D

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction: (Type) SONC Date Extracted: 06/02/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/03/2000

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

NW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F-47

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-045

Sample wt/vol: 10.35 (g/mL): g Lab File ID: 10060401.D

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/01/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82820

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

hw 10/12/10

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG8-14

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-046

Sample wt/vol: 10.41 (g/mL): g Lab File ID: 10060402.D

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/01/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

MW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG8-13

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-047

Sample wt/vol: 10.29 (g/mL): g Lab File ID: 10060342.D

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/02/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/03/2000

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

LW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG8-8

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-048

Sample wt/vol: 10.25 (g/mL): g Lab File ID: 10060344.D

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction: (Type) SONC Date Extracted: 06/02/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/03/2000

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

HW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG8-9

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ Mod Ref No _____ SDG No : 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-049

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10060346.D

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/02/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/03/2000

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

kw 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG8-4

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ Mod Ref No _____ SDG No : 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-050

Sample wt/vol: 10.45 (g/mL): g Lab File ID: 10060348.D

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/02/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/03/2000

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

nw 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG8-5

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No : 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-051

Sample wt/vol: 10.41 (g/mL): g Lab File ID: 10060350.D

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/02/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/03/2000

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

KW 10/12/10

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG8-10

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-052

Sample wt/vol: 19.33 (g/mL): g Lab File ID: 10060352.D

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction: (Type) SONC Date Extracted: 06/02/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 06/03/2000

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	13	U
72-55-9	4,4-DDE	13	U
50-29-3	4,4-DDT	13	U
309-00-2	Aldrin	13	U
319-84-6	alpha-BHC	13	U
5103-71-9	alpha-Chlordane	13	U
319-85-7	beta-BHC	13	U
319-86-8	delta-BHC	13	U
60-57-1	Dieldrin	13	U
959-98-8	Endosulfan I	13	U
33213-65-9	Endosulfan II	13	U
1031-07-8	Endosulfan sulfate	13	U
72-20-8	Endrin	13	U
7421-93-4	Endrin aldehyde	13	U
53494-70-5	Endrin ketone	13	U
58-89-9	gamma-BHC (Lindane)	13	U
5103-74-2	gamma-Chlordane	13	U
76-44-8	Heptachlor	13	U
1024-57-3	Heptachlor epoxide	13	U
72-43-5	Methoxychlor	13	U
8001-35-2	Toxaphene	130	U

MW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F-40

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ Mod Ref No _____ SDG No : 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-053

Sample wt/vol: 10.29 (g/mL): g Lab File ID: 10060354.D

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/02/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/03/2000

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

tw 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG9-3

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: Mod Ref No SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-054

Sample wt/vol: 10.34 (g/mL): g Lab File ID: 10060419.D

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction: (Type) SONC Date Extracted: 06/02/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 06/04/2010

Injection Volume: (µL) GPC Factor: 1.000 Dilution Factor: 40.0

GPC Cleanup (Y/N): N pH: Sulfur Cleanup (Y/N): N

82820

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	1,000	U
72-55-9	4,4-DDE	1,000	U
50-29-3	4,4-DDT	1,000	U
309-00-2	Aldrin	1,000	U
319-84-6	alpha-BHC	1,000	U
5103-71-9	alpha-Chlordane	750	J
319-85-7	beta-BHC	1,000	U
319-86-8	delta-BHC	1,000	U
60-57-1	Dieldrin	1,000	U
959-98-8	Endosulfan I	1,000	U
33213-65-9	Endosulfan II	1,000	U
1031-07-8	Endosulfan sulfate	1,000	U
72-20-8	Endrin	1,000	U
7421-93-4	Endrin aldehyde	1,000	U
53494-70-5	Endrin ketone	1,000	U
58-89-9	gamma-BHC (Lindane)	1,000	U
5103-74-2	gamma-Chlordane	720	J
76-44-8	Heptachlor	1,000	U
1024-57-3	Heptachlor epoxide	1,000	U
72-43-5	Methoxychlor	1,000	U
8001-35-2	Toxaphene	10,000	U

NW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG9-2

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-055

Sample wt/vol: 10.27 (g/mL): g Lab File ID: 10060421.D

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction: (Type) SONC Date Extracted: 06/02/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 06/04/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 100.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82820

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	2,400	U
72-55-9	4,4-DDE	2,400	U
50-29-3	4,4-DDT	2,400	U
309-00-2	Aldrin	2,400	U
319-84-6	alpha-BHC	2,400	U
5103-71-9	alpha-Chlordane	3,700	J
319-85-7	beta-BHC	2,400	U
319-86-8	delta-BHC	2,400	U
60-57-1	Dieldrin	2,400	U
959-98-8	Endosulfan I	2,400	U
33213-65-9	Endosulfan II	2,400	U
1031-07-8	Endosulfan sulfate	2,400	U
72-20-8	Endrin	2,400	U
7421-93-4	Endrin aldehyde	2,400	U
53494-70-5	Endrin ketone	2,400	U
58-89-9	gamma-BHC (Lindane)	2,400	U
5103-74-2	gamma-Chlordane	3,900	J
76-44-8	Heptachlor	2,400	U
1024-57-3	Heptachlor epoxide	2,400	U
72-43-5	Methoxychlor	2,400	U
8001-35-2	Toxaphene	24,000	U

MW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F-27

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ Mod Ref No _____ SDG No : 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-056

Sample wt/vol: 10.26 (g/mL): g Lab File ID: 10060360.D

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/02/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/03/2000

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

AW 10/12/10

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F-21

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-057

Sample wt/vol: 10.34 (g/mL): g Lab File ID: 10060362.D

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/02/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 06/03/2000

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

NW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F-16

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No : 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-058

Sample wt/vol: 10.31 (g/mL): g Lab File ID: 10060364.D

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/02/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 06/03/2000

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

AW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F-30

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-059

Sample wt/vol: 10.28 (g/mL): g Lab File ID: 10060366.D

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/02/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/03/2000

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

MW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F-51

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-060

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10060368.D

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction: (Type) SONC Date Extracted: 06/02/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/04/2000

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

NW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F-58 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No : 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-061

Sample wt/vol: 10.22 (g/mL): g Lab File ID: 10060443.D

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/03/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82820

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

NW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F-65

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ Mod Ref No _____ SDG No : 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-062

Sample wt/vol: 10.24 (g/mL): g Lab File ID: 10060436.D

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/03/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	25	U
72-55-9	4,4-DDE	25	U
50-29-3	4,4-DDT	25	U
309-00-2	Aldrin	25	U
319-84-6	alpha-BHC	25	U
5103-71-9	alpha-Chlordane	25	U
319-85-7	beta-BHC	25	U
319-86-8	delta-BHC	25	U
60-57-1	Dieldrin	25	U
959-98-8	Endosulfan I	25	U
33213-65-9	Endosulfan II	25	U
1031-07-8	Endosulfan sulfate	25	U
72-20-8	Endrin	25	U
7421-93-4	Endrin aldehyde	25	U
53494-70-5	Endrin ketone	25	U
58-89-9	gamma-BHC (Lindane)	25	U
5103-74-2	gamma-Chlordane	25	U
76-44-8	Heptachlor	25	U
1024-57-3	Heptachlor epoxide	25	U
72-43-5	Methoxychlor	25	U
8001-35-2	Toxaphene	250	U

MW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-GC-10

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ Mod Ref No _____ SDG No : 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-066

Sample wt/vol: 10.31 (g/mL): g Lab File ID: 10061521.D

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/03/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/15/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 10.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	240	U
72-55-9	4,4-DDE	240	U
50-29-3	4,4-DDT	240	U
309-00-2	Aldrin	240	U
319-84-6	alpha-BHC	240	U
5103-71-9	alpha-Chlordane	200	J
319-85-7	beta-BHC	240	U
319-86-8	delta-BHC	240	U
60-57-1	Dieldrin	240	U
959-98-8	Endosulfan I	240	U
33213-65-9	Endosulfan II	240	U
1031-07-8	Endosulfan sulfate	240	U
72-20-8	Endrin	240	U
7421-93-4	Endrin aldehyde	240	U
53494-70-5	Endrin ketone	240	U
58-89-9	gamma-BHC (Lindane)	240	U
5103-74-2	gamma-Chlordane	140	J
76-44-8	Heptachlor	240	U
1024-57-3	Heptachlor epoxide	240	U
72-43-5	Methoxychlor	240	U
8001-35-2	Toxaphene	2,400	U

HW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-GC-11

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-067

Sample wt/vol: 10.26 (g/mL): g Lab File ID: 10060440.D

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/03/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 06/04/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	23	U
50-29-3	4,4-DDT	23	U
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U

MW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-GC-12

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod Ref No. _____ SDG No: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-068

Sample wt/vol: 10.34 (g/mL): g Lab File ID: 10060442.D

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction: (Type) SONC Date Extracted: 06/03/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

MW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG4-8

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod Ref No _____ SDG No : 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-069

Sample wt/vol: 10.29 (g/mL): g Lab File ID: 10060444.D

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/03/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

NW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG4-14

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No : 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-070

Sample wt/vol: 10.14 (g/mL): g Lab File ID: 10060445.D

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/03/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82820

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	25	U
72-55-9	4,4-DDE	25	U
50-29-3	4,4-DDT	25	U
309-00-2	Aldrin	25	U
319-84-6	alpha-BHC	25	U
5103-71-9	alpha-Chlordane	25	U
319-85-7	beta-BHC	25	U
319-86-8	delta-BHC	25	U
60-57-1	Dieldrin	25	U
959-98-8	Endosulfan I	25	U
33213-65-9	Endosulfan II	25	U
1031-07-8	Endosulfan sulfate	25	U
72-20-8	Endrin	25	U
7421-93-4	Endrin aldehyde	25	U
53494-70-5	Endrin ketone	25	U
58-89-9	gamma-BHC (Lindane)	25	U
5103-74-2	gamma-Chlordane	25	U
76-44-8	Heptachlor	25	U
1024-57-3	Heptachlor epoxide	25	U
72-43-5	Methoxychlor	25	U
8001-35-2	Toxaphene	250	U

NW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG12-3

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No : 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-071

Sample wt/vol: 10.34 (g/mL): g Lab File ID: 10060446.D

% Moisture: 21 Decanted: (Y/N) CLEAR Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/03/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

AW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
EB-13

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No : 10052714

Matrix (SOIL/SED/WATER): WATER Lab Sample Id: 10052714-072

Sample wt/vol: 1000 (g/mL): mL Lab File ID: 10060322.D

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SEPF Date Extracted: 06/02/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/03/2000

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82799

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
309-00-2	Aldrin	0.04	U
319-84-6	alpha-BHC	0.04	U
319-85-7	beta-BHC	0.04	U
319-86-8	delta-BHC	0.08	U
5103-71-9	alpha-Chlordane	0.08	U
5103-74-2	gamma-Chlordane	0.08	U
72-54-8	4,4-DDD	0.08	U
72-55-9	4,4-DDE	0.08	U
50-29-3	4,4-DDT	0.08	U
60-57-1	Dieldrin	0.04	U
959-98-8	Endosulfan I	0.08	U
33213-65-9	Endosulfan II	0.08	U
1031-07-8	Endosulfan sulfate	0.08	U
72-20-8	Endrin	0.08	U
7421-93-4	Endrin aldehyde	0.08	U
53494-70-5	Endrin ketone	0.08	U
58-89-9	gamma-BHC (Lindane)	0.08	U
76-44-8	Heptachlor	0.08	U
1024-57-3	Heptachlor epoxide	0.08	U
72-43-5	Methoxychlor	0.08	U
8001-35-2	Toxaphene	2	U

MW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-GC-13

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod Ref No _____ SDG No: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-073

Sample wt/vol: 10.34 (g/mL): g Lab File ID: 10060447.D

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction: (Type) SONC Date Extracted: 06/03/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82820

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

RW 10/12/10

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG4-7

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod Ref No _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-081

Sample wt/vol: 10.27 (g/mL): g Lab File ID: 10061523.D

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/03/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 06/15/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	22	J
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

lw 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG4-13

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-082

Sample wt/vol: 10.31 (g/mL): g Lab File ID: 10060449.D

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction: (Type) SONC Date Extracted: 06/03/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 06/04/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82820

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

MW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG4-6

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-083

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10060450.D

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction: (Type) SONC Date Extracted: 06/03/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 06/04/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

kw 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG4-12

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-084

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10060451.D

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/03/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82820

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

NW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG4-5

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-085

Sample wt/vol: 10.41 (g/mL): g Lab File ID: 10060452.D

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/03/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

MW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG4-11

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ Mod Ref No _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-086

Sample wt/vol: 10.27 (g/mL): g Lab File ID: 10060453.D

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/03/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82820

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDI	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

NW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F-69

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No :10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-087

Sample wt/vol: 10.36 (g/mL): g Lab File ID: 10061533.D

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/03/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/15/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82819

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	13	J
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

MW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F-76

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-088

Sample wt/vol: 10.28 (g/mL): g Lab File ID: 10060455.D

% Moisture: 23 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction: (Type) SONC Date Extracted: 06/03/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82820

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	25	U
72-55-9	4,4-DDE	25	U
50-29-3	4,4-DDT	25	U
309-00-2	Aldrin	25	U
319-84-6	alpha-BHC	25	U
5103-71-9	alpha-Chlordane	25	U
319-85-7	beta-BHC	25	U
319-86-8	delta-BHC	25	U
60-57-1	Dieldrin	25	U
959-98-8	Endosulfan I	25	U
33213-65-9	Endosulfan II	25	U
1031-07-8	Endosulfan sulfate	25	U
72-20-8	Endrin	25	U
7421-93-4	Endrin aldehyde	25	U
53494-70-5	Endrin ketone	25	U
58-89-9	gamma-BHC (Lindane)	25	U
5103-74-2	gamma-Chlordane	25	U
76-44-8	Heptachlor	25	U
1024-57-3	Heptachlor epoxide	25	U
72-43-5	Methoxychlor	25	U
8001-35-2	Toxaphene	250	U

NW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F-8

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ Mod Ref No _____ SDG No.: 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-089

Sample wt/vol: 10.35 (g/mL): g Lab File ID: 10060459.D

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/03/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/05/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82820

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	25	U
72-55-9	4,4-DDE	25	U
50-29-3	4,4-DDT	25	U
309-00-2	Aldrin	25	U
319-84-6	alpha-BHC	25	U
5103-71-9	alpha-Chlordane	25	U
319-85-7	beta-BHC	25	U
319-86-8	delta-BHC	25	U
60-57-1	Dieldrin	25	U
959-98-8	Endosulfan I	25	U
33213-65-9	Endosulfan II	25	U
1031-07-8	Endosulfan sulfate	25	U
72-20-8	Endrin	25	U
7421-93-4	Endrin aldehyde	25	U
53494-70-5	Endrin ketone	25	U
58-89-9	gamma-BHC (Lindane)	25	U
5103-74-2	gamma-Chlordane	25	U
76-44-8	Heptachlor	25	U
1024-57-3	Heptachlor epoxide	25	U
72-43-5	Methoxychlor	25	U
8001-35-2	Toxaphene	250	U

MW 10/12/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TG12-2

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No : 10052714

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052714-090

Sample wt/vol: 10.29 (g/mL): g Lab File ID: 10060457.D

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/27/2010

Extraction : (Type) SONC Date Extracted: 06/03/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 06/05/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82820

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

NW 10/12/10

ENVIRONMENTAL
Data Services, Inc.

METALS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10052714

Client: ARGO Systems, Glen Burnie, MD Date: October 11 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-45A-7	10052714-001	Soil
2	AOC-45A-17	10052714-002	Soil
3	AOC-45A-25	10052714-003	Soil
4	AOC-45A-28	10052714-004	Soil
5	AOC-45A-33	10052714-005	Soil
6	AOC-45A-39	10052714-006	Soil
7	AOC-45A-44	10052714-007	Soil
8	AOC-45A-47	10052714-008	Soil
9	AOC-45A-51	10052714-009	Soil
10	AOC-45A-54	10052714-010	Soil
11	AOC-45A-58	10052714-011	Soil
12	AOC-45A-69	10052714-012	Soil
13	AOC-45A-76	10052714-013	Soil
14	AOC-45A-81	10052714-014	Soil
15	AOC-45A-87	10052714-015	Soil
16	AOC-45A-89	10052714-016	Soil
17	AOC-45A-97	10052714-017	Soil
18	AOC-45A-103	10052714-018	Soil
19	AOC-45A-114	10052714-019	Soil
20	AOC-45A-120	10052714-020	Soil
21	AOC-1A(689)-1	10052714-021	Soil
22	AOC-1A(689)-3	10052714-022	Soil
22MS	AOC-1A(689)-3MS	10052714-022MS	Soil
22MSD	AOC-1A(689)-3MSD	10052714-022MSD	Soil
23	AOC-1A(689)-5	10052714-023	Soil
24	AOC-1A(689)-7	10052714-024	Soil
25	AOC-1A(689)-9	10052714-025	Soil
26	AOC-45C-3	10052714-026	Soil
27	AOC-45C-9	10052714-027	Soil
28	AOC-45C-13	10052714-028	Soil
28MS	AOC-45C-13MS	10052714-028MS	Soil
28MSD	AOC-45C-13MSD	10052714-028MSD	Soil
29	AOC-45C-16	10052714-029	Soil
30	AOC-45C-23	10052714-030	Soil
31	AOC-45C-25	10052714-031	Soil

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
32	AOC-45C-27	10052714-032	Soil
33	AOC-45C-39	10052714-033	Soil
34	AOC-45C-41	10052714-034	Soil
34MS	AOC-45C-41MS	10052714-034MS	Soil
34MSD	AOC-45C-41MSD	10052714-034MSD	Soil
35	AOC-45C-43	10052714-035	Soil
36	DUP-AOC-1A(689)-01	10052714-063	Soil
37	DUP-AOC-45A-03	10052714-064	Soil
38	DUP-AOC-45A-04	10052714-065	Soil
39*	EB-13	10052714-072	Water
40**	AOC-1C-8	10052714-074	Soil
41**	AOC-1C-17	10052714-075	Soil
42**	AOC-1C-25	10052714-076	Soil
43**	FR-104-1/0-2	10052714-077	Soil
44**	FR-104-3/0-2	10052714-078	Soil
45**	FR-104-6/0-2	10052714-079	Soil
46**	FR-104-9/0-2	10052714-080	Soil
47**	FR-104-10/0-2	10052714-091	Soil
48**	FR-104-5/2-4	10052714-092	Soil

* - Arsenic only ** - Lead only

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable except the following.

CCV ID	Compound	%R	Qualifier	Affected Samples
Batch 82776	Beryllium	84%	L/UL	22
Batch 82810	Beryllium	74%	L/UL	1-12
Batch 82861	Thallium	86%	L/UL	34-38
	Lead	88%	None	See MS/MSD

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level mg/kg	Qualifier	Affected Samples
EB-13	None-ND	-	-	-	-

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier	Affected Samples
22	Antimony	70%/70%/OK	L/UL	13-22
	Chromium	OK/127%/OK	K	
28	Antimony	73%/OK/OK	L/UL	28-33
	Chromium	OK/152%/36	J	
34	Antimony	OK/73%/OK	L/UL	34-38
	Chromium	OK/74%/OK	L/UL	34-38
	Lead	OK/161%/53	J	34-38, 40-48

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-1A(689)-1 mg/kg	DUP-AOC-1A(689)-01 mg/kg	RPD	Qualifier
Arsenic	6.5	6.4	2%	None
Chromium	24	23	4%	None
Copper	9.1	9.5	4%	None
Lead	18	14	25%	None
Mercury	0.10 U	0.05	NC	None
Nickel	8.7	8.3	5%	None
Zinc	25	19	27%	None

Compound	AOC-45A-81 mg/kg	DUP-AOC-45A-03 mg/kg	RPD	Qualifier
Arsenic	0.74	0.72	3%	None
Chromium	3.5	5.5	44%	None
Copper	6.7	11	49%	None
Lead	6.0	18	100%	None
Nickel	4.8	3.9	21%	None
Zinc	29	27	7%	None

Compound	AOC-45A-33 mg/kg	DUP-AOC-45A-04 mg/kg	RPD	Qualifier
Arsenic	2.8	3.5	22%	None
Chromium	25	18	33%	None
Copper	98	41	82%	None
Lead	13	11	17%	None
Nickel	9.8	8.5	14%	None
Zinc	44	40	10%	None

Compound Quantitation - No discrepancies were identified.

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-45A-7

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-001

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 85 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.1	J		MS
7440-38-2	Arsenic	3.3			MS
7440-41-7	Beryllium	2.5	~~U~~		MS UL
7440-43-9	Cadmium	2.5	U		MS
7440-47-3	Chromium	14			MS
7440-50-8	Copper	20			MS
7439-92-1	Lead	150			MS
7439-97-6	Mercury	0.10	U		MS
7440-02-0	Nickel	8.4			MS
7782-49-2	Selenium	2.5	U		MS
7440-22-4	Silver	2.5	U		MS
7440-28-0	Thallium	0.5	U		MS
7440-66-6	Zinc	51			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN lw 10/11/10 SW6020

2

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45A-17

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-002

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 86 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	2.4			MS
7440-41-7	Beryllium	2.0	~~U~~		MS UL
7440-43-9	Cadmium	2.0	U		MS
7440-47-3	Chromium	17			MS
7440-50-8	Copper	17			MS
7439-92-1	Lead	12			MS
7439-97-6	Mercury	0.08	U		MS
7440-02-0	Nickel	8.5			MS
7782-49-2	Selenium	2.0	U		MS
7440-22-4	Silver	2.0	U		MS
7440-28-0	Thallium	0.4	U		MS
7440-66-6	Zinc	36			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

3

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45A-25

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-003

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 82 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.2	U		MS	
7440-38-2	Arsenic	5.1			MS	
7440-41-7	Beryllium	2.2	~~U~~		MS	UL
7440-43-9	Cadmium	2.2	U		MS	
7440-47-3	Chromium	24			MS	
7440-50-8	Copper	13			MS	
7439-92-1	Lead	55			MS	
7439-97-6	Mercury	0.09	U		MS	
7440-02-0	Nickel	12			MS	
7782-49-2	Selenium	2.2	U		MS	
7440-22-4	Silver	2.2	U		MS	
7440-28-0	Thallium	0.4	U		MS	
7440-66-6	Zinc	55			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

4

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-45A-28

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-004

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 84 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.4	U		MS
7440-38-2	Arsenic	3.9			MS
7440-41-7	Beryllium	1.3	~~U~~		MS L
7440-43-9	Cadmium	2.4	U		MS
7440-47-3	Chromium	13			MS
7440-50-8	Copper	14			MS
7439-92-1	Lead	23			MS
7439-97-6	Mercury	0.09	U		MS
7440-02-0	Nickel	7.7			MS
7782-49-2	Selenium	2.4	U		MS
7440-22-4	Silver	2.4	U		MS
7440-28-0	Thallium	0.5	U		MS
7440-66-6	Zinc	53			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN MW 10/11/10 SW6020

5

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-45A-33

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-005

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 78 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.2	U		MS
7440-38-2	Arsenic	2.8			MS
7440-41-7	Beryllium	2.2	~~U~~		MS UL
7440-43-9	Cadmium	2.2	U		MS
7440-47-3	Chromium	25			MS
7440-50-8	Copper	98			MS
7439-92-1	Lead	13			MS
7439-97-6	Mercury	0.09	U		MS
7440-02-0	Nickel	9.8			MS
7782-49-2	Selenium	2.2	U		MS
7440-22-4	Silver	2.2	U		MS
7440-28-0	Thallium	0.4	U		MS
7440-66-6	Zinc	44			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN NW 10/11/10 SW6020

6

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45A-39

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No : 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-006

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 84 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.2	U		MS
7440-38-2	Arsenic	1.8			MS
7440-41-7	Beryllium	2.2	~~U~~		MS UL
7440-43-9	Cadmium	2.2	U		MS
7440-47-3	Chromium	5.7			MS
7440-50-8	Copper	18			MS
7439-92-1	Lead	6.8			MS
7439-97-6	Mercury	0.09	U		MS
7440-02-0	Nickel	3.9			MS
7782-49-2	Selenium	2.2	U		MS
7440-22-4	Silver	2.2	U		MS
7440-28-0	Thallium	0.4	U		MS
7440-66-6	Zinc	30			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

7

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-45A-44

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-007

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 87 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.5	U		MS
7440-38-2	Arsenic	1.5			MS
7440-41-7	Beryllium	2.5	~~U~~		MS UL
7440-43-9	Cadmium	2.5	U		MS
7440-47-3	Chromium	7.9			MS
7440-50-8	Copper	12			MS
7439-92-1	Lead	32			MS
7439-97-6	Mercury	0.10	U		MS
7440-02-0	Nickel	4.6			MS
7782-49-2	Selenium	2.5	U		MS
7440-22-4	Silver	2.5	U		MS
7440-28-0	Thallium	0.5	U		MS
7440-66-6	Zinc	42			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

8

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45A-47

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-008

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 77 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.0	U		MS
7440-38-2	Arsenic	1.3			MS
7440-41-7	Beryllium	3.0	~~U~~		MS UL
7440-43-9	Cadmium	3.0	U		MS
7440-47-3	Chromium	21			MS
7440-50-8	Copper	55			MS
7439-92-1	Lead	4.8			MS
7439-97-6	Mercury	0.12	U		MS
7440-02-0	Nickel	5.6			MS
7782-49-2	Selenium	3.0	U		MS
7440-22-4	Silver	3.0	U		MS
7440-28-0	Thallium	0.6	U		MS
7440-66-6	Zinc	43			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

 KW 10/11/10 SW6020

9

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-45A-51

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-009

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 81 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.5	U		MS
7440-38-2	Arsenic	1.2			MS
7440-41-7	Beryllium	2.5	~~U~~		MS
7440-43-9	Cadmium	2.5	U		MS
7440-47-3	Chromium	7.7			MS
7440-50-8	Copper	50			MS
7439-92-1	Lead	5.9			MS
7439-97-6	Mercury	0.10	U		MS
7440-02-0	Nickel	4.9			MS
7782-49-2	Selenium	2.5	U		MS
7440-22-4	Silver	2.5	U		MS
7440-28-0	Thallium	0.5	U		MS
7440-66-6	Zinc	67			MS

UL

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-45A-54

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-010

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 85 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.9	U		MS
7440-38-2	Arsenic	1.1			MS
7440-41-7	Beryllium	2.9	~~U~~		MS UL
7440-43-9	Cadmium	2.9	U		MS
7440-47-3	Chromium	9.7			MS
7440-50-8	Copper	10			MS
7439-92-1	Lead	4.4			MS
7439-97-6	Mercury	0.12	U		MS
7440-02-0	Nickel	6.9			MS
7782-49-2	Selenium	2.9	U		MS
7440-22-4	Silver	2.9	U		MS
7440-28-0	Thallium	0.6	U		MS
7440-66-6	Zinc	29			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

11

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-45A-58

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-011

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 80 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.0	U		MS
7440-38-2	Arsenic	2.1			MS
7440-41-7	Beryllium	3.0	~~U~~		MS UL
7440-43-9	Cadmium	3.0	U		MS
7440-47-3	Chromium	12			MS
7440-50-8	Copper	99			MS
7439-92-1	Lead	4.8			MS
7439-97-6	Mercury	0.12	U		MS
7440-02-0	Nickel	5.0			MS
7782-49-2	Selenium	3.0	U		MS
7440-22-4	Silver	3.0	U		MS
7440-28-0	Thallium	0.6	U		MS
7440-66-6	Zinc	100			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

12

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45A-69

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-012

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 83 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.7	U		MS
7440-38-2	Arsenic	0.80			MS
7440-41-7	Beryllium	2.7	~~U~~		MS UL
7440-43-9	Cadmium	2.7	U		MS
7440-47-3	Chromium	350			MS
7440-50-8	Copper	9.0			MS
7439-92-1	Lead	2.9			MS
7439-97-6	Mercury	0.11	U		MS
7440-02-0	Nickel	61			MS
7782-49-2	Selenium	2.7	U		MS
7440-22-4	Silver	2.7	U		MS
7440-28-0	Thallium	0.5	U		MS
7440-66-6	Zinc	79			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

13

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-45A-76

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-013

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 90 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.4	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	4.6			MS	
7440-41-7	Beryllium	2.4	U		MS	
7440-43-9	Cadmium	2.4	U		MS	
7440-47-3	Chromium	30		~~N~~	MS	K
7440-50-8	Copper	20			MS	
7439-92-1	Lead	21			MS	
7439-97-6	Mercury	0.05	J		MS	
7440-02-0	Nickel	16			MS	
7782-49-2	Selenium	2.4	U		MS	
7440-22-4	Silver	2.4	U		MS	
7440-28-0	Thallium	0.24	J		MS	
7440-66-6	Zinc	30			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

14

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45A-81

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-014

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 81 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.1	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	0.74			MS	
7440-41-7	Beryllium	3.1	U		MS	
7440-43-9	Cadmium	3.1	U		MS	
7440-47-3	Chromium	3.5		~~N~~	MS	K
7440-50-8	Copper	6.7			MS	
7439-92-1	Lead	6.0			MS	
7439-97-6	Mercury	0.12	U		MS	
7440-02-0	Nickel	4.8			MS	
7782-49-2	Selenium	3.1	U		MS	
7440-22-4	Silver	3.1	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	29			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

 KW 10/11/10 SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45A-87

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-015

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 84 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.4	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	2.1			MS	
7440-41-7	Beryllium	2.4	U		MS	
7440-43-9	Cadmium	2.4	U		MS	
7440-47-3	Chromium	10		~~N~~	MS	K
7440-50-8	Copper	15			MS	
7439-92-1	Lead	6.9			MS	
7439-97-6	Mercury	0.10	U		MS	
7440-02-0	Nickel	5.1			MS	
7782-49-2	Selenium	2.4	U		MS	
7440-22-4	Silver	2.4	U		MS	
7440-28-0	Thallium	0.24	J		MS	
7440-66-6	Zinc	40			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

16

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-45A-89

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-016

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 81 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.7	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	5.2			MS	
7440-41-7	Beryllium	2.7	U		MS	
7440-43-9	Cadmium	2.7	U		MS	
7440-47-3	Chromium	30		~~N~~	MS	K
7440-50-8	Copper	16			MS	
7439-92-1	Lead	10			MS	
7439-97-6	Mercury	0.11	U		MS	
7440-02-0	Nickel	14			MS	
7782-49-2	Selenium	2.7	U		MS	
7440-22-4	Silver	2.7	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	40			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

17

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45A-97

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-017

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 82 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.7	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	5.7			MS	
7440-41-7	Beryllium	2.7	U		MS	
7440-43-9	Cadmium	2.7	U		MS	
7440-47-3	Chromium	34		~~N~~	MS	K
7440-50-8	Copper	16			MS	
7439-92-1	Lead	11			MS	
7439-97-6	Mercury	0.11	U		MS	
7440-02-0	Nickel	14			MS	
7782-49-2	Selenium	2.7	U		MS	
7440-22-4	Silver	2.7	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	43			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

10/11/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45A-103

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-018

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 83 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.6	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	7.9			MS	
7440-41-7	Beryllium	2.6	U		MS	
7440-43-9	Cadmium	2.6	U		MS	
7440-47-3	Chromium	39		~~N~~	MS	K
7440-50-8	Copper	14			MS	
7439-92-1	Lead	24			MS	
7439-97-6	Mercury	0.05	J		MS	
7440-02-0	Nickel	8.0			MS	
7782-49-2	Selenium	2.6	U		MS	
7440-22-4	Silver	2.6	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	30			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

19

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-45A-114

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-019

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 90 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.7	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	8.8			MS	
7440-41-7	Beryllium	2.7	U		MS	
7440-43-9	Cadmium	2.7	U		MS	
7440-47-3	Chromium	37		~~N~~	MS	K
7440-50-8	Copper	11			MS	
7439-92-1	Lead	14			MS	
7439-97-6	Mercury	0.06	J		MS	
7440-02-0	Nickel	7.5			MS	
7782-49-2	Selenium	2.7	U		MS	
7440-22-4	Silver	2.7	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	22			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

 NW 10/11/10 SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45A-120

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-020

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 83 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.8	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	4.1			MS	
7440-41-7	Beryllium	2.8	U		MS	
7440-43-9	Cadmium	2.8	U		MS	
7440-47-3	Chromium	24		~~N~~	MS	K
7440-50-8	Copper	13			MS	
7439-92-1	Lead	49			MS	
7439-97-6	Mercury	0.11	U		MS	
7440-02-0	Nickel	8.5			MS	
7782-49-2	Selenium	2.8	U		MS	
7440-22-4	Silver	2.8	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	46			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 10/11/10

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-1A(689)-1

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No.: 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-021

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 91 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.6	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	6.5			MS	
7440-41-7	Beryllium	2.6	U		MS	
7440-43-9	Cadmium	2.6	U		MS	
7440-47-3	Chromium	24		~~N~~	MS	K
7440-50-8	Copper	9.1			MS	
7439-92-1	Lead	18			MS	
7439-97-6	Mercury	0.10	U		MS	
7440-02-0	Nickel	8.7			MS	
7782-49-2	Selenium	2.6	U		MS	
7440-22-4	Silver	2.6	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	25			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

 RW 10/11/10 SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-1A(689)-3 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-022

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 88 Batch #: 82776

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.3	U		MS	UL
7440-38-2	Arsenic	6.2			MS	
7440-41-7	Beryllium	2.3	U		MS	UL
7440-43-9	Cadmium	2.3	U		MS	
7440-47-3	Chromium	22			MS	K
7440-50-8	Copper	10			MS	
7439-92-1	Lead	19			MS	
7439-97-6	Mercury	0.10			MS	
7440-02-0	Nickel	10			MS	
7782-49-2	Selenium	2.3	U		MS	
7440-22-4	Silver	2.3	U		MS	
7440-28-0	Thallium	0.29	J		MS	
7440-66-6	Zinc	29			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-1A(689)-5

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-023

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 82 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.5	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	10			MS	
7440-41-7	Beryllium	2.5	U		MS	
7440-43-9	Cadmium	2.5	U		MS	
7440-47-3	Chromium	47		~~N~~	MS	K
7440-50-8	Copper	21			MS	
7439-92-1	Lead	15			MS	
7439-97-6	Mercury	0.14			MS	
7440-02-0	Nickel	16			MS	
7782-49-2	Selenium	2.5	U		MS	
7440-22-4	Silver	2.5	U		MS	
7440-28-0	Thallium	0.33	J		MS	
7440-66-6	Zinc	34			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-1A(689)-7

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-024

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 88 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.3	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	5.0			MS	
7440-41-7	Beryllium	2.3	U		MS	
7440-43-9	Cadmium	2.3	U		MS	
7440-47-3	Chromium	19		~~N~~	MS	K
7440-50-8	Copper	7.7			MS	
7439-92-1	Lead	46			MS	
7439-97-6	Mercury	0.09	U		MS	
7440-02-0	Nickel	5.7			MS	
7782-49-2	Selenium	2.3	U		MS	
7440-22-4	Silver	2.3	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	45			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-1A(689)-9

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-025

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 87 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.8	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	4.4			MS	
7440-41-7	Beryllium	2.8	U		MS	
7440-43-9	Cadmium	2.8	U		MS	
7440-47-3	Chromium	22		~~N~~	MS	K
7440-50-8	Copper	8.9			MS	
7439-92-1	Lead	16			MS	
7439-97-6	Mercury	0.11	U		MS	
7440-02-0	Nickel	5.6			MS	
7782-49-2	Selenium	2.8	U		MS	
7440-22-4	Silver	2.8	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	20			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
10/11/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45C-3

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No : 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-026

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 89 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.5	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	2.9			MS	
7440-41-7	Beryllium	2.5	U		MS	
7440-43-9	Cadmium	2.5	U		MS	
7440-47-3	Chromium	11		~~N~~	MS	K
7440-50-8	Copper	5.2			MS	
7439-92-1	Lead	27			MS	
7439-97-6	Mercury	0.05	J		MS	
7440-02-0	Nickel	6.6			MS	
7782-49-2	Selenium	2.5	U		MS	
7440-22-4	Silver	2.5	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	28			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45C-9

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A
Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052714
Matrix (soil/water): SOIL Lab Sample ID: 10052714-027
Level (low/med): LOW Date Received: 05/27/2010
% Solids: 87 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.3	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	3.1			MS	
7440-41-7	Beryllium	2.3	U		MS	
7440-43-9	Cadmium	2.3	U		MS	
7440-47-3	Chromium	11		~~N~~	MS	K
7440-50-8	Copper	5.4			MS	
7439-92-1	Lead	33			MS	
7439-97-6	Mercury	0.05	J		MS	
7440-02-0	Nickel	6.2			MS	
7782-49-2	Selenium	2.3	U		MS	
7440-22-4	Silver	2.3	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	26			MS	

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

KW 10/11/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45C-13 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A
Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10052714
Matrix (soil/water): SOIL Lab Sample ID: 10052714-028
Level (low/med): LOW Date Received: 05/27/2010
% Solids: 90 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.3	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	2.8			MS	
7440-41-7	Beryllium	2.3	U		MS	
7440-43-9	Cadmium	2.3	U		MS	
7440-47-3	Chromium	15		~~N~~	MS	J
7440-50-8	Copper	6.8			MS	
7439-92-1	Lead	8.6			MS	
7439-97-6	Mercury	0.05	J		MS	
7440-02-0	Nickel	7.1			MS	
7782-49-2	Selenium	2.3	U		MS	
7440-22-4	Silver	2.3	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	16			MS	

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

 MW 10/11/10 SW6020

USEPA - CLP
IA- IN
INORGANIC ANALYSIS DATA SHEET

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EPA SAMPLE NO.
AOC-45C-16

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-029

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 84 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.8	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	5.5			MS	
7440-41-7	Beryllium	2.8	U		MS	
7440-43-9	Cadmium	2.8	U		MS	
7440-47-3	Chromium	35		~~N~~	MS	J
7440-50-8	Copper	11			MS	
7439-92-1	Lead	94			MS	
7439-97-6	Mercury	0.09	J		MS	
7440-02-0	Nickel	8.7			MS	
7782-49-2	Selenium	2.8	U		MS	
7440-22-4	Silver	2.8	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	58			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

 kw 10/11/10 SW6020

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-45C-23

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No : 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-030

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 84 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.8	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	6.2			MS	
7440-41-7	Beryllium	2.8	U		MS	
7440-43-9	Cadmium	2.8	U		MS	
7440-47-3	Chromium	27		~~N~~	MS	J
7440-50-8	Copper	16			MS	
7439-92-1	Lead	380			MS	
7439-97-6	Mercury	0.14			MS	
7440-02-0	Nickel	11			MS	
7782-49-2	Selenium	2.8	U		MS	
7440-22-4	Silver	2.8	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	98			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN MW 10/11/10 SW6020

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45C-25

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-031

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 89 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.0	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	4.8			MS	
7440-41-7	Beryllium	2.0	U		MS	
7440-43-9	Cadmium	2.0	U		MS	
7440-47-3	Chromium	21		~~N~~	MS	J
7440-50-8	Copper	6.9			MS	
7439-92-1	Lead	14			MS	
7439-97-6	Mercury	0.05	J		MS	
7440-02-0	Nickel	4.6			MS	
7782-49-2	Selenium	2.0	U		MS	
7440-22-4	Silver	2.0	U		MS	
7440-28-0	Thallium	0.4	U		MS	
7440-66-6	Zinc	12			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW

FORM IA - IN 10/11/10 SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-45C-27

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-032

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 90 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.5	~~U~~	~~N~~	MS UL
7440-38-2	Arsenic	2.8			MS
7440-41-7	Beryllium	2.5	U		MS
7440-43-9	Cadmium	2.5	U		MS
7440-47-3	Chromium	14		~~N~~	MS J
7440-50-8	Copper	5.4			MS
7439-92-1	Lead	12			MS
7439-97-6	Mercury	0.10	U		MS
7440-02-0	Nickel	5.0			MS
7782-49-2	Selenium	2.5	U		MS
7440-22-4	Silver	2.5	U		MS
7440-28-0	Thallium	0.5	U		MS
7440-66-6	Zinc	16			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN MW 10/11/10 SW6020

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-45C-39

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-033

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 84 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.9	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	6.0			MS	
7440-41-7	Beryllium	2.9	U		MS	
7440-43-9	Cadmium	2.9	U		MS	
7440-47-3	Chromium	22		~~N~~	MS	J
7440-50-8	Copper	9.2			MS	
7439-92-1	Lead	11			MS	
7439-97-6	Mercury	0.12	U		MS	
7440-02-0	Nickel	6.7			MS	
7782-49-2	Selenium	2.9	U		MS	
7440-22-4	Silver	2.9	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	20			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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10/11/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45C-41 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052714
Matrix (soil/water): SOIL Lab Sample ID: 10052714-034
Level (low/med): LOW Date Received: 05/27/2010
% Solids: 88 Batch #: 82861

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.4	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	4.8			MS	
7440-41-7	Beryllium	2.4	U		MS	
7440-43-9	Cadmium	2.4	U		MS	
7440-47-3	Chromium	18		~~N~~	MS	L
7440-50-8	Copper	4.8			MS	
7439-92-1	Lead	8.8		~~N~~	MS	K
7439-97-6	Mercury	0.10	U		MS	
7440-02-0	Nickel	4.8			MS	
7782-49-2	Selenium	2.4	U		MS	
7440-22-4	Silver	2.4	U		MS	
7440-28-0	Thallium	0.5	~~U~~		MS	UL
7440-66-6	Zinc	16			MS	

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

hw
10/11/10

35

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45C-43

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-035

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 87 Batch #: 82861

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.6	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	4.1			MS	
7440-41-7	Beryllium	2.6	U		MS	
7440-43-9	Cadmium	2.6	U		MS	
7440-47-3	Chromium	26		~~N~~	MS	L
7440-50-8	Copper	18			MS	
7439-92-1	Lead	13		~~N~~	MS	K
7439-97-6	Mercury	0.05	J		MS	
7440-02-0	Nickel	14			MS	
7782-49-2	Selenium	2.6	U		MS	
7440-22-4	Silver	2.6	U		MS	
7440-28-0	Thallium	0.5	~~U~~		MS	UL
7440-66-6	Zinc	27			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

36

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC1A(689)-01

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-063

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 90 Batch #: 82861

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.3	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	6.4			MS	
7440-41-7	Beryllium	2.3	U		MS	
7440-43-9	Cadmium	2.3	U		MS	
7440-47-3	Chromium	23		~~N~~	MS	L
7440-50-8	Copper	9.5			MS	
7439-92-1	Lead	14		~~N~~	MS	K
7439-97-6	Mercury	0.05	J		MS	
7440-02-0	Nickel	8.3			MS	
7782-49-2	Selenium	2.3	U		MS	
7440-22-4	Silver	2.3	U		MS	
7440-28-0	Thallium	0.5	~~U~~		MS	UL
7440-66-6	Zinc	19			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

hw
10/11/10

FORM IA - IN SW6020

37

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC45A-03

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No : 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-064

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 83 Batch #: 82861

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.6	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	0.72			MS	
7440-41-7	Beryllium	2.6	U		MS	
7440-43-9	Cadmium	2.6	U		MS	
7440-47-3	Chromium	5.5		~~N~~	MS	L
7440-50-8	Copper	11			MS	
7439-92-1	Lead	18		~~N~~	MS	K
7439-97-6	Mercury	0.10	U		MS	
7440-02-0	Nickel	3.9			MS	
7782-49-2	Selenium	2.6	U		MS	
7440-22-4	Silver	2.6	U		MS	
7440-28-0	Thallium	0.5	~~U~~		MS	UL
7440-66-6	Zinc	27			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN MW 10/11/10 SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC45A-04

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A
Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052714
Matrix (soil/water): SOIL Lab Sample ID: 10052714-065
Level (low/med): LOW Date Received: 05/27/2010
% Solids: 81 Batch #: 82861

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.0	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	3.5			MS	
7440-41-7	Beryllium	3.0	U		MS	
7440-43-9	Cadmium	3.0	U		MS	
7440-47-3	Chromium	18		~~N~~	MS	L
7440-50-8	Copper	41			MS	
7439-92-1	Lead	11		~~N~~	MS	K
7439-97-6	Mercury	0.12	U		MS	
7440-02-0	Nickel	8.5			MS	
7782-49-2	Selenium	3.0	U		MS	
7440-22-4	Silver	3.0	U		MS	
7440-28-0	Thallium	0.6	~~U~~		MS	UL
7440-66-6	Zinc	40			MS	

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

 KW 10/4/10 SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB-13

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052714

Matrix (soil/water): WATER Lab Sample ID: 10052714-072

Level (low/med): LOW Date Received: 05/27/2010

% Solids: _____ Batch #: 82790

Concentration Units (ug/ L or mg/kg dry weight) UG/L

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.0	U		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

KW

FORM IA - IN 10/11/10 SW6020

40

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC 1C-8

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-074

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 92 Batch #: 82861

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	27		~~N~~	MS

J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

KW

FORM IA - IN 10/11/10 SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC 1C-17

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A
Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052714
Matrix (soil/water): SOIL Lab Sample ID: 10052714-075
Level (low/med): LOW Date Received: 05/27/2010
% Solids: 86 Batch #: 82861

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	59		~~N~~	MS J

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

NW

FORM IA - IN 10/11/10 SW6020

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC 1C-25

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-076

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 87 Batch #: 82861

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	15		~~N~~	MS

J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN NW 10/11/10 SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
FR-104-1/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-077

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 80 Batch #: 82861

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7439-92-1	Lead	18		~~N~~	MS	J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

FR-104-3/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-078

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 76 Batch #: 82861

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	17		~~N~~ J	MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

 NW 10/11/10 SW6020

45

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
FR-104-6/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-079

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 77 Batch #: 82861

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7439-92-1	Lead	19		~~N~~ J	MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 10/11/10

FORM IA - IN SW6020

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

FR-104-9/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-080

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 84 Batch #: 82861

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7439-92-1	Lead	21		~~N~~ J	MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN KW 10/11/10 SW6020

47

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

FR-104-10/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-091

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 82 Batch #: 82861

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	21		~~N~~	MS

J.

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

KW
10/11/10

FORM IA - IN SW6020

48

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

FR-104-5/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: N/A

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052714

Matrix (soil/water): SOIL Lab Sample ID: 10052714-092

Level (low/med): LOW Date Received: 05/27/2010

% Solids: 88 Batch #: 82861

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7439-92-1	Lead	4.5		~~N~~	MS	J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN NW 10/11/10 SW6020

ENVIRONMENTAL
Data Services, Inc.

METALS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10052510

Client: ARGO Systems, Glen Burnie, MD Date: October 11 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-2A-3/0-2	10052510-001	Soil
2	AOC-2A-3/2-4	10052510-002	Soil
2MS	AOC-2A-3/2-4MS	10052510-002MS	Soil
2MSD	AOC-2A-3/2-4MSD	10052510-002MSD	Soil
3	AOC-2A-5/0-2	10052510-003	Soil
4	AOC-2A-5/2-4	10052510-004	Soil
5	AOC-2A-6/0-2	10052510-005	Soil
6	AOC-2A-6/2-4	10052510-006	Soil
7	AOC-2A-7/0-2	10052510-007	Soil
8	AOC-2A-7/2-4	10052510-008	Soil
9	AOC-2A-8/0-2	10052510-009	Soil
10	AOC-2A-8/2-4	10052510-010	Soil
11	AOC-2A-11/0-2	10052510-011	Soil
12	AOC-2A-11/2-4	10052510-012	Soil
13	AOC-2A-12/0-2	10052510-013	Soil
14	AOC-2A-12/2-4	10052510-014	Soil
15	AOC-2A-13/0-2	10052510-015	Soil
16	AOC-2A-13/2-4	10052510-016	Soil
17	AOC-2A-14/0-2	10052510-017	Soil
18	AOC-2A-14/2-4	10052510-018	Soil
19	AOC-2A-15/0-2	10052510-019	Soil
20	AOC-2A-15/2-4	10052510-020	Soil
21	AOC-2A-18/0-2	10052510-021	Soil
22	AOC-2A-18/2-4	10052510-022	Soil
23	AOC-2A-19/0-2	10052510-023	Soil
24	AOC-2A-19/2-4	10052510-024	Soil
25	AOC-2A-20/0-2	10052510-025	Soil
26	AOC-2A-20/2-4	10052510-026	Soil
27	AOC-2A-21/0-2	10052510-027	Soil
28	AOC-2A-21/2-4	10052510-028	Soil
29	AOC-2A-22/0-2	10052510-029	Soil
30	AOC-2A-22/2-4	10052510-030	Soil
31	AOC-2A-25/0-2	10052510-031	Soil
32	AOC-2A-25/2-4	10052510-032	Soil
33	AOC-2A-26/0-2	10052510-033	Soil

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
34	AOC-2A-26/2-4	10052510-034	Soil
34MS	AOC-2A-26/2-4MS	10052510-034MS	Soil
34MSD	AOC-2A-26/2-4MSD	10052510-034MSD	Soil
35	AOC-2A-27/0-2	10052510-035	Soil
36	AOC-2A-27/2-4	10052510-036	Soil
37	AOC-2A-28/0-2	10052510-037	Soil
38	AOC-2A-28/2-4	10052510-038	Soil
39	AOC-2A-29/0-2	10052510-039	Soil
40	AOC-2A-29/2-4	10052510-040	Soil
41	AOC-2A-32/0-2	10052510-041	Soil
42	AOC-2A-32/2-4	10052510-042	Soil
43	AOC-2A-33/0-2	10052510-043	Soil
44	AOC-2A-33/2-4	10052510-044	Soil
45	AOC-2A-34/0-2	10052510-045	Soil
46	AOC-2A-34/2-4	10052510-046	Soil
47	AOC-2A-35/0-2	10052510-047	Soil
48	AOC-2A-35/2-4	10052510-048	Soil
49	AOC-2A-37/0-2	10052510-049	Soil
50	AOC-2A-37/2-4	10052510-050	Soil
51	AOC-2A-38/0-2	10052510-051	Soil
52	AOC-2A-38/2-4	10052510-052	Soil
52MS	AOC-2A-38/2-4MS	10052510-052MS	Soil
52MSD	AOC-2A-38/2-4MSD	10052510-052MSD	Soil
53	AOC-14-1/0-2	10052510-053	Soil
54	AOC-14-1/2-4	10052510-054	Soil
55	AOC-14-2/0-2	10052510-055	Soil
56	AOC-14-2/2-4	10052510-056	Soil
57	AOC-14-UST-1/8-10	10052510-057	Soil
58	AOC-14-UST-2/8-10	10052510-058	Soil
59	DUP-AOC-14-03	10052510-059	Soil
60	DUP-AOC-2A-07	10052510-060	Soil
61	DUP-AOC-2A-08	10052510-061	Soil
62	DUP-AOC-2A-09	10052510-062	Soil
63	DUP-AOC-2A-10	10052510-063	Soil
64	DUP-AOC-2A-11	10052510-064	Soil
65	DUP-AOC-2A-12	10052510-065	Soil

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable except the following.

CCV ID	Compound	%R	Qualifier	Affected Samples
Batch 82770	Beryllium	127%	K	8-20, 34
	Mercury	63060%	K	
	Sodium	130%	K	
Batch 82810	Beryllium	70%	L/UL	21-33, 35, 36, 63, 64, 65
	Calcium	224%	K	
	Iron	268%	K	
Batch 82876	Aluminum	275%	K	43-52, 60, 61, 62
	Iron	136%	None	Already Qualified
Batch 83301	Iron	113%	K	37-42

Method and Calibration Blanks - The method blanks and continuing calibration blanks exhibited the following contamination.

Blank ID	Compound	Conc. mg/kg	Action Level mg/kg	Qualifier	Affected Samples
Batch 82770	Mercury	148.5	742.5	B	34
Batch 82767	Calcium	109.8	549	B	1, 5, 6, 7
	Mercury	3.8	19.0	B	1-7
Batch 82876	Aluminum	36.97	184.85	B	54
	Calcium	76.65	383.25	B	43, 44, 50, 52, 62
	Zinc	13.18	65.90	B	43, 45, 47, 49-51, 53-62

Field and Equipment Blank - Field QC samples were not included in this data package.

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier	Affected Samples
2	Antimony	57%/56%/Ok	L/UL	1-7
	Arsenic	74%/74%/Ok	None	See ICP SD
	Chromium	49%/21%/80	L/UL	1-7
	Copper	59%/49%/Ok	L/UL	1-7
	Mercury	0%/758%/200	None	See MB
	Vanadium	41%/13%/104	L/UL	1-7
34	Beryllium	129%/127%/Ok	K	34
	Calcium	144%/Ok/Ok	K	
	Chromium	134%/244%/58	J	
	Magnesium	168%/182%/Ok	K	
	Manganese	149%/129%/Ok	K	
	Potassium	161%/143%/Ok	K	
	Vanadium	156%/155%/Ok	K	
52	Chromium	130%/Ok/Ok	K	43-62
	Vanadium	130%/Ok/Ok	K	

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values except the following.

ICP Sample ID	Compound	%D	Qualifier	Affected Samples
2	Arsenic	17%	J	1-7
52	Iron	14%	J	43-52, 60, 61, 62

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-14-UST-1/8-10 mg/kg	DUP-AOC-14-03 mg/kg	RPD	Qualifier
Arsenic	1.3	1.2	8%	None
Chromium	140	120	15%	None
Copper	110	100	10%	None
Lead	3.0	3.0	0%	None
Nickel	72	65	10%	None
Zinc	62	55 B	NC	None

Compound	AOC-2A-8/2-4 mg/kg	DUP-AOC-2A-07 mg/kg	RPD	Qualifier
Aluminum	19000	21000	10%	None
Arsenic	4.9	3.4	36%	None
Barium	78	180	79%	None
Beryllium	2.4	2.7 U	NC	None
Calcium	78	5400	194%	J
Chromium	28	15	60%	None
Cobalt	9.7	13	29%	None
Copper	29	35	19%	None
Iron	92000	61000	41%	None
Lead	13	29	76%	None
Magnesium	1300	760	52%	None
Manganese	550	1200	74%	None
Mercury	0.10	0.11 U	NC	None
Nickel	9.8	8.3	17%	None
Potassium	600	450	29%	None
Sodium	48	54 U	NC	None
Vanadium	200	150	29%	None
Zinc	43	39 B	NC	None

Compound	AOC-2A-21/2-4 mg/kg	DUP-AOC-2A-08 mg/kg	RPD	Qualifier
Aluminum	23000	19000	19%	None
Arsenic	6.1	6.0	2%	None
Barium	80	67	18%	None
Calcium	320	480	40%	None
Chromium	30	26	14%	None

Compound	AOC-2A-21/2-4 mg/kg	DUP-AOC-2A-08 mg/kg	RPD	Qualifier
Cobalt	9.4	11	16%	None
Copper	16	17	6%	None
Iron	35000	27000	26%	None
Lead	12	10	18%	None
Magnesium	2200	2800	24%	None
Manganese	350	310	12%	None
Nickel	15	16	6%	None
Potassium	1200	1100	9%	None
Sodium	50 U	32	NC	None
Vanadium	57	56	2%	None
Zinc	31	34 B	NC	None

Compound	AOC-2A-28/2-4 mg/kg	DUP-AOC-2A-09 mg/kg	RPD	Qualifier
Aluminum	8300	8500	2%	None
Arsenic	4.0	4.1	2%	None
Barium	230	510	76%	None
Beryllium	2.6	2.7 U	NC	None
Calcium	160	310	64%	None
Chromium	26	36	32%	None
Cobalt	49	110	77%	None
Copper	26	44	51%	None
Iron	28000	43000	42%	None
Lead	61	69	12%	None
Magnesium	170	140	19%	None
Manganese	1300	3000	79%	None
Mercury	0.19	0.11 U	NC	None
Nickel	9.0	13	36%	None
Potassium	320	250	25%	None
Thallium	0.49	0.79	47%	None
Vanadium	110	130	17%	None
Zinc	43	52 B	NC	None

Compound	AOC-2A-13/0-2 mg/kg	DUP-AOC-2A-10 mg/kg	RPD	Qualifier
Aluminum	7500	11000	38%	None
Arsenic	9.8	5.7	53%	None
Barium	67	63	6%	None
Beryllium	2.3	2.2 U	NC	None
Calcium	850	530	46%	None
Chromium	15	15	0%	None
Cobalt	5.7	9.8	53%	None
Copper	48	22	74%	None
Iron	16000	12000	29%	None
Lead	160	48	108%	J
Magnesium	590	550	7%	None
Manganese	170	220	26%	None
Mercury	5.6	2.0	95%	None
Nickel	10	7.7	26%	None
Potassium	360	340	6%	None

Compound	AOC-2A-13/0-2 mg/kg	DUP-AOC-2A-10 mg/kg	RPD	Qualifier
Sodium	33	43 U	NC	None
Vanadium	26	27	4%	None
Zinc	120	63	62%	None

Compound	AOC-2A-18/0-2 mg/kg	DUP-AOC-2A-11 mg/kg	RPD	Qualifier
Aluminum	24000	13000	59%	None
Arsenic	3.6	3.3	9%	None
Barium	45	57	24%	None
Calcium	880	490	57%	None
Chromium	21	18	15%	None
Cobalt	6.1	5.2	16%	None
Copper	15	9.9	41%	None
Iron	40000	22000	58%	None
Lead	36	21	53%	None
Magnesium	1200	770	44%	None
Manganese	130	190	38%	None
Mercury	0.09 U	0.07	NC	None
Nickel	12	9.0	29%	None
Potassium	760	580	27%	None
Vanadium	55	41	29%	None
Zinc	63	41	42%	None

Compound	AOC-2A-13/2-4 mg/kg	DUP-AOC-2A-12 mg/kg	RPD	Qualifier
Aluminum	21000	24000	13%	None
Arsenic	4.5	5.2	14%	None
Barium	78	85	9%	None
Beryllium	2.6	2.6 U	NC	None
Calcium	980	840	15%	None
Chromium	33	30	10%	None
Cobalt	9.7	14	36%	None
Copper	11	11	0%	None
Iron	22000	21000	5%	None
Lead	14	15	7%	None
Magnesium	2500	1600	44%	None
Manganese	160	200	22%	None
Mercury	0.10	0.13	26%	None
Nickel	14	15	7%	None
Potassium	1000	810	21%	None
Sodium	42	52 U	NC	None
Thallium	0.28	0.33	16%	None
Vanadium	45	55	20%	None
Zinc	37	36	3%	None

Compound Quantitation - No discrepancies were identified.

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-2A-3/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-001

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 83 Batch #: 82767

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	20000		N	MS	
7440-36-0	Antimony	2.6	U	N	MS	UL
7440-38-2	Arsenic	5.6		N	MS	J
7440-39-3	Barium	86		N	MS	
7440-41-7	Beryllium	2.6	U		MS	
7440-43-9	Cadmium	2.6	U		MS	
7440-70-2	Calcium	520			MS	B
7440-47-3	Chromium	25		N	MS	L
7440-48-4	Cobalt	7.3			MS	
7440-50-8	Copper	9.7		N	MS	L
7439-89-6	Iron	24000		N	MS	
7439-92-1	Lead	15			MS	
7439-95-4	Magnesium	1400		N	MS	
7439-96-5	Manganese	290			MS	
7439-97-6	Mercury	0.60		N	MS	B
7440-02-0	Nickel	10			MS	
7440-09-7	Potassium	810		N	MS	
7782-49-2	Selenium	2.6	U		MS	
7440-22-4	Silver	2.6	U		MS	
7440-23-5	Sodium	40	J		MS	
7440-28-0	Thallium	0.34	J		MS	
7440-62-2	Vanadium	46		N	MS	L
7440-66-6	Zinc	29			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 10/11/10

FORM IA - IN SW6020

2

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-3/2-4 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510
Matrix (soil/water): SOIL Lab Sample ID: 10052510-002
Level (low/med): LOW Date Received: 05/25/2010
% Solids: 84 Batch #: 82767

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	20000		~~N~~	MS	
7440-36-0	Antimony	3.0	~~U~~	N	MS	UL
7440-38-2	Arsenic	8.9		~~N~~	MS	J
7440-39-3	Barium	87		~~N~~	MS	
7440-41-7	Beryllium	3.0	U		MS	
7440-43-9	Cadmium	3.0	U		MS	
7440-70-2	Calcium	590			MS	
7440-47-3	Chromium	50		~~N~~	MS	L
7440-48-4	Cobalt	6.2			MS	
7440-50-8	Copper	21		~~N~~	MS	L
7439-89-6	Iron	45000		~~N~~	MS	
7439-92-1	Lead	15			MS	
7439-95-4	Magnesium	3300		~~N~~	MS	
7439-96-5	Manganese	90			MS	
7439-97-6	Mercury	1.2		~~N~~	MS	B
7440-02-0	Nickel	14			MS	
7440-09-7	Potassium	1300		~~N~~	MS	
7782-49-2	Selenium	3.0	U		MS	
7440-22-4	Silver	3.0	U		MS	
7440-23-5	Sodium	74			MS	
7440-28-0	Thallium	0.40	J		MS	
7440-62-2	Vanadium	69		~~N~~	MS	L
7440-66-6	Zinc	33			MS	

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

KW
FORM IA - IN 10/11/10 SW6020

3

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-2A-5/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-003

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 90 Batch #: 82767

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	12000		N	MS	
7440-36-0	Antimony	1.9	U	N	MS	UL
7440-38-2	Arsenic	6.2		N	MS	J
7440-39-3	Barium	41		N	MS	
7440-41-7	Beryllium	1.9	U		MS	
7440-43-9	Cadmium	1.9	U		MS	
7440-70-2	Calcium	3800			MS	
7440-47-3	Chromium	27		N	MS	L
7440-48-4	Cobalt	3.3			MS	
7440-50-8	Copper	9.5		N	MS	L
7439-89-6	Iron	19000		N	MS	
7439-92-1	Lead	13			MS	
7439-95-4	Magnesium	3800		N	MS	
7439-96-5	Manganese	140			MS	
7439-97-6	Mercury	7.6		N	MS	B
7440-02-0	Nickel	6.2			MS	
7440-09-7	Potassium	490		N	MS	
7782-49-2	Selenium	1.9	U		MS	
7440-22-4	Silver	1.9	U		MS	
7440-23-5	Sodium	20	J		MS	
7440-28-0	Thallium	0.4	U		MS	
7440-62-2	Vanadium	44		N	MS	L
7440-66-6	Zinc	18			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 10/11/10

FORM IA - IN SW6020

4

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-2A-5/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-004

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 80 Batch #: 82767

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	24000		~~N~~	MS	
7440-36-0	Antimony	2.2	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	3.6		~~N~~	MS	J
7440-39-3	Barium	30		~~N~~	MS	
7440-41-7	Beryllium	2.2	U		MS	
7440-43-9	Cadmium	2.2	U		MS	
7440-70-2	Calcium	4400			MS	
7440-47-3	Chromium	27		~~N~~	MS	L
7440-48-4	Cobalt	3.9			MS	
7440-50-8	Copper	22		~~N~~	MS	L
7439-89-6	Iron	47000		~~N~~	MS	
7439-92-1	Lead	11			MS	
7439-95-4	Magnesium	4400		~~N~~	MS	
7439-96-5	Manganese	73			MS	
7439-97-6	Mercury	8.7		~~N~~	MS	B
7440-02-0	Nickel	7.5			MS	
7440-09-7	Potassium	610		~~N~~	MS	
7782-49-2	Selenium	2.2	U		MS	
7440-22-4	Silver	2.2	U		MS	
7440-23-5	Sodium	22	J		MS	
7440-28-0	Thallium	0.24	J		MS	
7440-62-2	Vanadium	130		~~N~~	MS	L
7440-66-6	Zinc	22			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW

FORM IA - IN 10/11/10 SW6020

5

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-6/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-005

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 83 Batch #: 82767

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	17000		N	MS	
7440-36-0	Antimony	2.1	U	N	MS	UL
7440-38-2	Arsenic	5.6		N	MS	J
7440-39-3	Barium	99		N	MS	
7440-41-7	Beryllium	2.1	U		MS	
7440-43-9	Cadmium	2.1	U		MS	
7440-70-2	Calcium	410			MS	B
7440-47-3	Chromium	21		N	MS	L
7440-48-4	Cobalt	9.2			MS	
7440-50-8	Copper	10		N	MS	L
7439-89-6	Iron	19000		N	MS	
7439-92-1	Lead	24			MS	
7439-95-4	Magnesium	1400		N	MS	
7439-96-5	Manganese	290			MS	
7439-97-6	Mercury	3.1		N	MS	B
7440-02-0	Nickel	13			MS	
7440-09-7	Potassium	670		N	MS	
7782-49-2	Selenium	2.1	U		MS	
7440-22-4	Silver	2.1	U		MS	
7440-23-5	Sodium	30	J		MS	
7440-28-0	Thallium	0.27	J		MS	
7440-62-2	Vanadium	45		N	MS	L
7440-66-6	Zinc	48			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

 UW 10/11/10 SW6020

6

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-2A-6/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-006

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 81 Batch #: 82767

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	25000		N	MS	
7440-36-0	Antimony	2.5	U	N	MS	UL
7440-38-2	Arsenic	4.3		N	MS	J
7440-39-3	Barium	65		N	MS	
7440-41-7	Beryllium	2.5	U		MS	
7440-43-9	Cadmium	2.5	U		MS	
7440-70-2	Calcium	500			MS	B
7440-47-3	Chromium	30		N	MS	L
7440-48-4	Cobalt	6.8			MS	
7440-50-8	Copper	15		N	MS	L
7439-89-6	Iron	26000		N	MS	
7439-92-1	Lead	12			MS	
7439-95-4	Magnesium	2400		N	MS	
7439-96-5	Manganese	130			MS	
7439-97-6	Mercury	1.0		N	MS	B
7440-02-0	Nickel	12			MS	
7440-09-7	Potassium	1300		N	MS	
7782-49-2	Selenium	2.5	U		MS	
7440-22-4	Silver	2.5	U		MS	
7440-23-5	Sodium	36	J		MS	
7440-28-0	Thallium	0.26	J		MS	
7440-62-2	Vanadium	64		N	MS	L
7440-66-6	Zinc	32			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 10/11/10

7

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-2A-7/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-007

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 85 Batch #: 82767

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	21000		N	MS	
7440-36-0	Antimony	2.2	U	N	MS	UL
7440-38-2	Arsenic	5.7		N	MS	J
7440-39-3	Barium	69		N	MS	
7440-41-7	Beryllium	2.2	U		MS	
7440-43-9	Cadmium	2.2	U		MS	
7440-70-2	Calcium	440			MS	B
7440-47-3	Chromium	30		N	MS	L
7440-48-4	Cobalt	6.1			MS	
7440-50-8	Copper	14		N	MS	L
7439-89-6	Iron	27000		N	MS	
7439-92-1	Lead	26			MS	
7439-95-4	Magnesium	2100		N	MS	
7439-96-5	Manganese	130			MS	
7439-97-6	Mercury	0.87		N	MS	B
7440-02-0	Nickel	13			MS	
7440-09-7	Potassium	1100		N	MS	
7782-49-2	Selenium	2.2	U		MS	
7440-22-4	Silver	2.2	U		MS	
7440-23-5	Sodium	33	J		MS	
7440-28-0	Thallium	0.4	U		MS	
7440-62-2	Vanadium	55		N	MS	L
7440-66-6	Zinc	40			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

KW 10/4/10

FORM IA - IN SW6020

8

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-2A-7/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-008

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 83 Batch #: 82770

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	14000		N	MS	
7440-36-0	Antimony	2.5	U	N	MS	
7440-38-2	Arsenic	3.4		N	MS	
7440-39-3	Barium	17		N	MS	
7440-41-7	Beryllium	2.5		N	MS	K
7440-43-9	Cadmium	2.5	U	N	MS	
7440-70-2	Calcium	150		N	MS	
7440-47-3	Chromium	44		N	MS	
7440-48-4	Cobalt	13		N	MS	
7440-50-8	Copper	30		N	MS	
7439-89-6	Iron	71000		N	MS	
7439-92-1	Lead	14		N	MS	
7439-95-4	Magnesium	610		N	MS	
7439-96-5	Manganese	380		N	MS	
7439-97-6	Mercury	0.10		N	MS	K
7440-02-0	Nickel	8.5		N	MS	
7440-09-7	Potassium	420		N	MS	
7782-49-2	Selenium	2.5	U	N	MS	
7440-22-4	Silver	2.5	U	N	MS	
7440-23-5	Sodium	51		N	MS	K
7440-28-0	Thallium	0.5	U	N	MS	
7440-62-2	Vanadium	160		N	MS	
7440-66-6	Zinc	44		N	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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FORM IA - IN 10/1/10 SW6020

9

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-8/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510
Matrix (soil/water): SOIL Lab Sample ID: 10052510-009
Level (low/med): LOW Date Received: 05/25/2010
% Solids: 85 Batch #: 82770

Concentration Units (ug/L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	27000		N	MS	
7440-36-0	Antimony	2.3	U	N	MS	
7440-38-2	Arsenic	6.7		N	MS	
7440-39-3	Barium	80		N	MS	
7440-41-7	Beryllium	2.3		N	MS	K
7440-43-9	Cadmium	2.3	U	N	MS	
7440-70-2	Calcium	800		N	MS	
7440-47-3	Chromium	37		N	MS	
7440-48-4	Cobalt	6.3		N	MS	
7440-50-8	Copper	17		N	MS	
7439-89-6	Iron	31000		N	MS	
7439-92-1	Lead	16		N	MS	
7439-95-4	Magnesium	1900		N	MS	
7439-96-5	Manganese	200		N	MS	
7439-97-6	Mercury	0.09		N	MS	K
7440-02-0	Nickel	16		N	MS	
7440-09-7	Potassium	1200		N	MS	
7782-49-2	Selenium	2.3	U	N	MS	
7440-22-4	Silver	2.3	U	N	MS	
7440-23-5	Sodium	30		N	MS	K
7440-28-0	Thallium	0.30	J	N	MS	
7440-62-2	Vanadium	77		N	MS	
7440-66-6	Zinc	37		N	MS	

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

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FORM IA - IN SW6020

10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-2A-8/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-010

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 83 Batch #: 82770

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	19000		N	MS	
7440-36-0	Antimony	2.4	U	N	MS	
7440-38-2	Arsenic	4.9		N	MS	
7440-39-3	Barium	78		N	MS	
7440-41-7	Beryllium	2.4		N	MS	K
7440-43-9	Cadmium	2.4	U	N	MS	
7440-70-2	Calcium	78		N	MS	
7440-47-3	Chromium	28		N	MS	
7440-48-4	Cobalt	9.7		N	MS	
7440-50-8	Copper	29		N	MS	
7439-89-6	Iron	92000		N	MS	
7439-92-1	Lead	13		N	MS	
7439-95-4	Magnesium	1300		N	MS	
7439-96-5	Manganese	550		N	MS	
7439-97-6	Mercury	0.10		N	MS	K
7440-02-0	Nickel	9.8		N	MS	
7440-09-7	Potassium	600		N	MS	
7782-49-2	Selenium	2.4	U	N	MS	
7440-22-4	Silver	2.4	U	N	MS	
7440-23-5	Sodium	48		N	MS	K
7440-28-0	Thallium	0.5	U	N	MS	
7440-62-2	Vanadium	200		N	MS	
7440-66-6	Zinc	43		N	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

LW 10/11/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-2A-11/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-011

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 92 Batch #: 82770

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	7800		N	MS	
7440-36-0	Antimony	2.3	U	N	MS	
7440-38-2	Arsenic	4.6		N	MS	
7440-39-3	Barium	44		N	MS	
7440-41-7	Beryllium	2.3		N	MS	K
7440-43-9	Cadmium	2.3	U	N	MS	
7440-70-2	Calcium	240		N	MS	
7440-47-3	Chromium	22		N	MS	
7440-48-4	Cobalt	4.6		N	MS	
7440-50-8	Copper	11		N	MS	
7439-89-6	Iron	17000		N	MS	
7439-92-1	Lead	17		N	MS	
7439-95-4	Magnesium	510		N	MS	
7439-96-5	Manganese	160		N	MS	
7439-97-6	Mercury	0.09		N	MS	K
7440-02-0	Nickel	6.0		N	MS	
7440-09-7	Potassium	370		N	MS	
7782-49-2	Selenium	2.3	U	N	MS	
7440-22-4	Silver	2.3	U	N	MS	
7440-23-5	Sodium	45		N	MS	K
7440-28-0	Thallium	0.5	U	N	MS	
7440-62-2	Vanadium	52		N	MS	
7440-66-6	Zinc	26		N	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN NW 10/11/10 SW6020

12

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-11/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-012

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 83 Batch #: 82770

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	18000		N	MS	
7440-36-0	Antimony	2.8	U	N	MS	
7440-38-2	Arsenic	5.4		N	MS	
7440-39-3	Barium	55		N	MS	
7440-41-7	Beryllium	2.8		N	MS	K
7440-43-9	Cadmium	2.8	U	N	MS	
7440-70-2	Calcium	750		N	MS	
7440-47-3	Chromium	22		N	MS	
7440-48-4	Cobalt	11		N	MS	
7440-50-8	Copper	14		N	MS	
7439-89-6	Iron	29000		N	MS	
7439-92-1	Lead	15		N	MS	
7439-95-4	Magnesium	920		N	MS	
7439-96-5	Manganese	340		N	MS	
7439-97-6	Mercury	0.11		N	MS	K
7440-02-0	Nickel	9.7		N	MS	
7440-09-7	Potassium	610		N	MS	
7782-49-2	Selenium	2.8	U	N	MS	
7440-22-4	Silver	2.8	U	N	MS	
7440-23-5	Sodium	57		N	MS	K
7440-28-0	Thallium	0.6	U	N	MS	
7440-62-2	Vanadium	66		N	MS	
7440-66-6	Zinc	27		N	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN

NW 10/11/10

SW6020

13

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-2A-12/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-013

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 90 Batch #: 82770

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	7300		N	MS	
7440-36-0	Antimony	1.8	J	N	MS	
7440-38-2	Arsenic	4.2		N	MS	
7440-39-3	Barium	47		N	MS	
7440-41-7	Beryllium	2.3		N	MS	K
7440-43-9	Cadmium	2.3	U	N	MS	
7440-70-2	Calcium	580		N	MS	
7440-47-3	Chromium	13		N	MS	
7440-48-4	Cobalt	3.4		N	MS	
7440-50-8	Copper	34		N	MS	
7439-89-6	Iron	13000		N	MS	
7439-92-1	Lead	130		N	MS	
7439-95-4	Magnesium	490		N	MS	
7439-96-5	Manganese	150		N	MS	
7439-97-6	Mercury	0.09		N	MS	K
7440-02-0	Nickel	6.3		N	MS	
7440-09-7	Potassium	320		N	MS	
7782-49-2	Selenium	2.3	U	N	MS	
7440-22-4	Silver	2.3	U	N	MS	
7440-23-5	Sodium	47		N	MS	K
7440-28-0	Thallium	0.5	U	N	MS	
7440-62-2	Vanadium	19		N	MS	
7440-66-6	Zinc	120		N	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

LEW 10/14/10

FORM IA - IN SW6020

14

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-2A-12/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-014

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 84 Batch #: 82770

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	19000		N	MS	
7440-36-0	Antimony	2.3	U	N	MS	
7440-38-2	Arsenic	5.3		N	MS	
7440-39-3	Barium	67		N	MS	
7440-41-7	Beryllium	2.3		N	MS	K
7440-43-9	Cadmium	2.3	U	N	MS	
7440-70-2	Calcium	400		N	MS	
7440-47-3	Chromium	28		N	MS	
7440-48-4	Cobalt	12		N	MS	
7440-50-8	Copper	12		N	MS	
7439-89-6	Iron	27000		N	MS	
7439-92-1	Lead	12		N	MS	
7439-95-4	Magnesium	1700		N	MS	
7439-96-5	Manganese	210		N	MS	
7439-97-6	Mercury	0.09		N	MS	K
7440-02-0	Nickel	12		N	MS	
7440-09-7	Potassium	770		N	MS	
7782-49-2	Selenium	2.3	U	N	MS	
7440-22-4	Silver	2.3	U	N	MS	
7440-23-5	Sodium	28		N	MS	K
7440-28-0	Thallium	0.28	J	N	MS	
7440-62-2	Vanadium	46		N	MS	
7440-66-6	Zinc	27		N	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN 10/11/10 SW6020

15

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-13/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No : 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-015

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 87 Batch #: 82770

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	7500		N	MS	
7440-36-0	Antimony	2.3	U	N	MS	
7440-38-2	Arsenic	9.8		N	MS	
7440-39-3	Barium	67		N	MS	
7440-41-7	Beryllium	2.3		N	MS	K
7440-43-9	Cadmium	2.3	U	N	MS	
7440-70-2	Calcium	850		N	MS	
7440-47-3	Chromium	15		N	MS	
7440-48-4	Cobalt	5.7		N	MS	
7440-50-8	Copper	48		N	MS	
7439-89-6	Iron	16000		N	MS	
7439-92-1	Lead	160		N	MS	
7439-95-4	Magnesium	590		N	MS	
7439-96-5	Manganese	170		N	MS	
7439-97-6	Mercury	5.6		N	MS	K
7440-02-0	Nickel	10		N	MS	
7440-09-7	Potassium	360		N	MS	
7782-49-2	Selenium	2.3	U	N	MS	
7440-22-4	Silver	2.3	U	N	MS	
7440-23-5	Sodium	33		N	MS	K
7440-28-0	Thallium	0.5	U	N	MS	
7440-62-2	Vanadium	26		N	MS	
7440-66-6	Zinc	120		N	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 10/11/10

FORM IA - IN SW6020

16

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-13/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-016

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 86 Batch #: 82770

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	21000		N	MS	
7440-36-0	Antimony	2.6	U	N	MS	
7440-38-2	Arsenic	4.5		N	MS	
7440-39-3	Barium	78		N	MS	
7440-41-7	Beryllium	2.6		N	MS	K
7440-43-9	Cadmium	2.6	U	N	MS	
7440-70-2	Calcium	980		N	MS	
7440-47-3	Chromium	33		N	MS	
7440-48-4	Cobalt	9.7		N	MS	
7440-50-8	Copper	11		N	MS	
7439-89-6	Iron	22000		N	MS	
7439-92-1	Lead	14		N	MS	
7439-95-4	Magnesium	2500		N	MS	
7439-96-5	Manganese	160		N	MS	
7439-97-6	Mercury	0.10		N	MS	K
7440-02-0	Nickel	14		N	MS	
7440-09-7	Potassium	1000		N	MS	
7782-49-2	Selenium	2.6	U	N	MS	
7440-22-4	Silver	2.6	U	N	MS	
7440-23-5	Sodium	42		N	MS	K
7440-28-0	Thallium	0.28	J	N	MS	
7440-62-2	Vanadium	45		N	MS	
7440-66-6	Zinc	37		N	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 10/11/10

FORM IA - IN SW6020

17

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-14/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-017

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 81 Batch #: 82770

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	15000		N	MS	
7440-36-0	Antimony	2.6	U	N	MS	
7440-38-2	Arsenic	4.7		N	MS	
7440-39-3	Barium	54		N	MS	
7440-41-7	Beryllium	2.6		N	MS	K
7440-43-9	Cadmium	2.6	U	N	MS	
7440-70-2	Calcium	610		N	MS	
7440-47-3	Chromium	23		N	MS	
7440-48-4	Cobalt	6.5		N	MS	
7440-50-8	Copper	12		N	MS	
7439-89-6	Iron	21000		N	MS	
7439-92-1	Lead	14		N	MS	
7439-95-4	Magnesium	1400		N	MS	
7439-96-5	Manganese	150		N	MS	
7439-97-6	Mercury	0.15		N	MS	K
7440-02-0	Nickel	10		N	MS	
7440-09-7	Potassium	740		N	MS	
7782-49-2	Selenium	2.6	U	N	MS	
7440-22-4	Silver	2.6	U	N	MS	
7440-23-5	Sodium	29		N	MS	K
7440-28-0	Thallium	0.5	U	N	MS	
7440-62-2	Vanadium	52		N	MS	
7440-66-6	Zinc	39		N	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 10/11/10

FORM IA - IN SW6020

18

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-2A-14/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-018

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 81 Batch #: 82770

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	29000		N	MS	
7440-36-0	Antimony	2.9	U	N	MS	
7440-38-2	Arsenic	2.5		N	MS	
7440-39-3	Barium	36		N	MS	
7440-41-7	Beryllium	2.9		N	MS	K
7440-43-9	Cadmium	2.9	U	N	MS	
7440-70-2	Calcium	58		N	MS	
7440-47-3	Chromium	7.8		N	MS	
7440-48-4	Cobalt	15		N	MS	
7440-50-8	Copper	33		N	MS	
7439-89-6	Iron	60000		N	MS	
7439-92-1	Lead	5.7		N	MS	
7439-95-4	Magnesium	1500		N	MS	
7439-96-5	Manganese	110		N	MS	
7439-97-6	Mercury	0.12		N	MS	K
7440-02-0	Nickel	11		N	MS	
7440-09-7	Potassium	360		N	MS	
7782-49-2	Selenium	2.9	U	N	MS	
7440-22-4	Silver	2.9	U	N	MS	
7440-23-5	Sodium	58		N	MS	K
7440-28-0	Thallium	0.6	U	N	MS	
7440-62-2	Vanadium	170		N	MS	
7440-66-6	Zinc	31		N	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 10/4/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-15/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No : 10052510
Matrix (soil/water): SOIL Lab Sample ID: 10052510-019
Level (low/med): LOW Date Received: 05/25/2010
% Solids: 83 Batch #: 82770

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	13000		N	MS	
7440-36-0	Antimony	2.3	U	N	MS	
7440-38-2	Arsenic	3.6		N	MS	
7440-39-3	Barium	62		N	MS	
7440-41-7	Beryllium	2.3		N	MS	K
7440-43-9	Cadmium	2.3	U	N	MS	
7440-70-2	Calcium	650		N	MS	
7440-47-3	Chromium	16		N	MS	
7440-48-4	Cobalt	6.9		N	MS	
7440-50-8	Copper	26		N	MS	
7439-89-6	Iron	27000		N	MS	
7439-92-1	Lead	14		N	MS	
7439-95-4	Magnesium	500		N	MS	
7439-96-5	Manganese	140		N	MS	
7439-97-6	Mercury	0.09		N	MS	K
7440-02-0	Nickel	11		N	MS	
7440-09-7	Potassium	380		N	MS	
7782-49-2	Selenium	2.3	U	N	MS	
7440-22-4	Silver	2.3	U	N	MS	
7440-23-5	Sodium	35		N	MS	K
7440-28-0	Thallium	0.5	U	N	MS	
7440-62-2	Vanadium	44		N	MS	
7440-66-6	Zinc	32		N	MS	

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

FORM IA - IN lew 10/11/10 SW6020

20

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-15/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-020

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 90 Batch #: 82770

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	18000		N	MS	
7440-36-0	Antimony	2.6	U	N	MS	
7440-38-2	Arsenic	3.3		N	MS	
7440-39-3	Barium	34		N	MS	
7440-41-7	Beryllium	2.6		N	MS	K
7440-43-9	Cadmium	2.6	U	N	MS	
7440-70-2	Calcium	41	J	N	MS	
7440-47-3	Chromium	21		N	MS	
7440-48-4	Cobalt	2.2	J	N	MS	
7440-50-8	Copper	9.3		N	MS	
7439-89-6	Iron	17000		N	MS	
7439-92-1	Lead	7.9		N	MS	
7439-95-4	Magnesium	860		N	MS	
7439-96-5	Manganese	48		N	MS	
7439-97-6	Mercury	0.10		N	MS	K
7440-02-0	Nickel	6.4		N	MS	
7440-09-7	Potassium	520		N	MS	
7782-49-2	Selenium	2.6	U	N	MS	
7440-22-4	Silver	2.6	U	N	MS	
7440-23-5	Sodium	52		N	MS	K
7440-28-0	Thallium	0.5	U	N	MS	
7440-62-2	Vanadium	46		N	MS	
7440-66-6	Zinc	13		N	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

LW
10/11/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-18/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-021

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 89 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	24000			MS	
7440-36-0	Antimony	2.3	U		MS	
7440-38-2	Arsenic	3.6			MS	
7440-39-3	Barium	45			MS	L
7440-41-7	Beryllium	2.3	U	~~N~~	MS	
7440-43-9	Cadmium	2.3	U		MS	
7440-70-2	Calcium	880		~~N~~	MS	K
7440-47-3	Chromium	21			MS	
7440-48-4	Cobalt	6.1			MS	
7440-50-8	Copper	15			MS	
7439-89-6	Iron	40000		~~N~~	MS	K
7439-92-1	Lead	36			MS	
7439-95-4	Magnesium	1200			MS	
7439-96-5	Manganese	130			MS	
7439-97-6	Mercury	0.09	U		MS	
7440-02-0	Nickel	12			MS	
7440-09-7	Potassium	760			MS	
7782-49-2	Selenium	2.3	U		MS	
7440-22-4	Silver	2.3	U		MS	
7440-23-5	Sodium	46	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-62-2	Vanadium	55			MS	
7440-66-6	Zinc	63			MS	

Color Before BLACK Clarity Before _____ Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments: _____

NW

FORM IA - IN 10/11/10 SW6020

22

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-18/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-022

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 88 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	12000		N	MS	
7440-36-0	Antimony	2.3	U	N	MS	
7440-38-2	Arsenic	3.2		N	MS	
7440-39-3	Barium	17		N	MS	
7440-41-7	Beryllium	2.3	U	N	MS	UL
7440-43-9	Cadmium	2.3	U	N	MS	
7440-70-2	Calcium	450		N	MS	K
7440-47-3	Chromium	19		N	MS	
7440-48-4	Cobalt	2.0	J	N	MS	
7440-50-8	Copper	7.3		N	MS	
7439-89-6	Iron	12000		N	MS	K
7439-92-1	Lead	6.3		N	MS	
7439-95-4	Magnesium	510		N	MS	
7439-96-5	Manganese	28			MS	
7439-97-6	Mercury	0.09	U	N	MS	
7440-02-0	Nickel	4.8		N	MS	
7440-09-7	Potassium	570		N	MS	
7782-49-2	Selenium	2.3	U	N	MS	
7440-22-4	Silver	2.3	U	N	MS	
7440-23-5	Sodium	45	U	N	MS	
7440-28-0	Thallium	0.5	U	N	MS	
7440-62-2	Vanadium	35		N	MS	
7440-66-6	Zinc	32		N	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN NW 10/11/10 SW6020

23

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-2A-19/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-023

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 89 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	7900		N	MS	
7440-36-0	Antimony	2.6	U	N	MS	
7440-38-2	Arsenic	3.0		N	MS	
7440-39-3	Barium	52		N	MS	
7440-41-7	Beryllium	2.6	U	N	MS	UL
7440-43-9	Cadmium	2.6	U	N	MS	
7440-70-2	Calcium	660		N	MS	K
7440-47-3	Chromium	10		N	MS	
7440-48-4	Cobalt	11		N	MS	
7440-50-8	Copper	7.6		N	MS	
7439-89-6	Iron	8700		N	MS	K
7439-92-1	Lead	56		N	MS	
7439-95-4	Magnesium	390		N	MS	
7439-96-5	Manganese	180			MS	
7439-97-6	Mercury	0.06	J	N	MS	
7440-02-0	Nickel	6.5		N	MS	
7440-09-7	Potassium	300		N	MS	
7782-49-2	Selenium	2.6	U	N	MS	
7440-22-4	Silver	2.6	U	N	MS	
7440-23-5	Sodium	52	U	N	MS	
7440-28-0	Thallium	0.5	U	N	MS	
7440-62-2	Vanadium	18		N	MS	
7440-66-6	Zinc	78		N	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 10/11/10

FORM IA - IN SW6020

24

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-2A-19/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-024

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 93 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	7700		N	MS	
7440-36-0	Antimony	2.4	U	N	MS	
7440-38-2	Arsenic	4.1		N	MS	
7440-39-3	Barium	46		N	MS	
7440-41-7	Beryllium	2.4	U	N	MS	UL
7440-43-9	Cadmium	2.4	U	N	MS	
7440-70-2	Calcium	110		N	MS	K
7440-47-3	Chromium	19		N	MS	
7440-48-4	Cobalt	10		N	MS	
7440-50-8	Copper	16		N	MS	
7439-89-6	Iron	40000		N	MS	K
7439-92-1	Lead	12		N	MS	
7439-95-4	Magnesium	48	U	N	MS	
7439-96-5	Manganese	340			MS	
7439-97-6	Mercury	0.05	J	N	MS	
7440-02-0	Nickel	5.6		N	MS	
7440-09-7	Potassium	210		N	MS	
7782-49-2	Selenium	2.4	U	N	MS	
7440-22-4	Silver	2.4	U	N	MS	
7440-23-5	Sodium	48	U	N	MS	
7440-28-0	Thallium	0.5	U	N	MS	
7440-62-2	Vanadium	41		N	MS	
7440-66-6	Zinc	26		N	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

lw 10/11/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-20/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510
Matrix (soil/water): SOIL Lab Sample ID: 10052510-025
Level (low/med): LOW Date Received: 05/25/2010
% Solids: 90 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	11000		N	MS	
7440-36-0	Antimony	2.6	U	N	MS	
7440-38-2	Arsenic	2.8		N	MS	
7440-39-3	Barium	38		N	MS	
7440-41-7	Beryllium	2.6	U	N	MS	UL
7440-43-9	Cadmium	2.6	U	N	MS	
7440-70-2	Calcium	300		N	MS	K
7440-47-3	Chromium	16		N	MS	
7440-48-4	Cobalt	8.9		N	MS	
7440-50-8	Copper	9.0		N	MS	
7439-89-6	Iron	16000		N	MS	K
7439-92-1	Lead	12		N	MS	
7439-95-4	Magnesium	430		N	MS	
7439-96-5	Manganese	120			MS	
7439-97-6	Mercury	0.06	J	N	MS	
7440-02-0	Nickel	6.1		N	MS	
7440-09-7	Potassium	340		N	MS	
7782-49-2	Selenium	2.6	U	N	MS	
7440-22-4	Silver	2.6	U	N	MS	
7440-23-5	Sodium	51	U	N	MS	
7440-28-0	Thallium	0.5	U	N	MS	
7440-62-2	Vanadium	37		N	MS	
7440-66-6	Zinc	22		N	MS	

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

MW 10/1/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-20/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No : 10052510
Matrix (soil/water): SOIL Lab Sample ID: 10052510-026
Level (low/med): LOW Date Received: 05/25/2010
% Solids: 77 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	34000		N	MS	
7440-36-0	Antimony	3.2	U	N	MS	
7440-38-2	Arsenic	1.9		N	MS	
7440-39-3	Barium	34		N	MS	
7440-41-7	Beryllium	3.2	U	N	MS	UL
7440-43-9	Cadmium	3.2	U	N	MS	
7440-70-2	Calcium	710		N	MS	K
7440-47-3	Chromium	8.0		N	MS	
7440-48-4	Cobalt	19		N	MS	
7440-50-8	Copper	22		N	MS	
7439-89-6	Iron	50000		N	MS	K
7439-92-1	Lead	14		N	MS	
7439-95-4	Magnesium	960		N	MS	
7439-96-5	Manganese	230			MS	
7439-97-6	Mercury	0.13	U	N	MS	
7440-02-0	Nickel	14		N	MS	
7440-09-7	Potassium	750		N	MS	
7782-49-2	Selenium	3.2	U	N	MS	
7440-22-4	Silver	3.2	U	N	MS	
7440-23-5	Sodium	63	U	N	MS	
7440-28-0	Thallium	0.6	U	N	MS	
7440-62-2	Vanadium	140		N	MS	
7440-66-6	Zinc	39		N	MS	

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

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FORM IA - IN 10/11/10 SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-21/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No.: 10052510
Matrix (soil/water): SOIL Lab Sample ID: 10052510-027
Level (low/med): LOW Date Received: 05/25/2010
% Solids: 85 Batch #: 82810
Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	25000		N	MS	
7440-36-0	Antimony	2.9	U	N	MS	
7440-38-2	Arsenic	4.9		N	MS	
7440-39-3	Barium	47		N	MS	
7440-41-7	Beryllium	2.9	U	N	MS	UL
7440-43-9	Cadmium	2.9	U	N	MS	
7440-70-2	Calcium	570		N	MS	K
7440-47-3	Chromium	29		N	MS	
7440-48-4	Cobalt	11		N	MS	
7440-50-8	Copper	15		N	MS	
7439-89-6	Iron	29000		N	MS	K
7439-92-1	Lead	12		N	MS	
7439-95-4	Magnesium	1300		N	MS	
7439-96-5	Manganese	140			MS	
7439-97-6	Mercury	0.11	U	N	MS	
7440-02-0	Nickel	12		N	MS	
7440-09-7	Potassium	930		N	MS	
7782-49-2	Selenium	2.9	U	N	MS	
7440-22-4	Silver	2.9	U	N	MS	
7440-23-5	Sodium	50	J	N	MS	
7440-28-0	Thallium	0.37	J	N	MS	
7440-62-2	Vanadium	60		N	MS	
7440-66-6	Zinc	26		N	MS	

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

mw
10/11/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-21/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10052510
Matrix (soil/water): SOIL Lab Sample ID: 10052510-028
Level (low/med): LOW Date Received: 05/25/2010
% Solids: 84 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	23000		N	MS	
7440-36-0	Antimony	2.5	U	N	MS	
7440-38-2	Arsenic	6.1		N	MS	
7440-39-3	Barium	80		N	MS	
7440-41-7	Beryllium	2.5	U	N	MS	UL
7440-43-9	Cadmium	2.5	U	N	MS	
7440-70-2	Calcium	320		N	MS	K
7440-47-3	Chromium	30		N	MS	
7440-48-4	Cobalt	9.4		N	MS	
7440-50-8	Copper	16		N	MS	
7439-89-6	Iron	35000		N	MS	K
7439-92-1	Lead	12		N	MS	
7439-95-4	Magnesium	2200		N	MS	
7439-96-5	Manganese	350			MS	
7439-97-6	Mercury	0.10	U	N	MS	
7440-02-0	Nickel	15		N	MS	
7440-09-7	Potassium	1200		N	MS	
7782-49-2	Selenium	2.5	U	N	MS	
7440-22-4	Silver	2.5	U	N	MS	
7440-23-5	Sodium	50	U	N	MS	
7440-28-0	Thallium	0.5	U	N	MS	
7440-62-2	Vanadium	57		N	MS	
7440-66-6	Zinc	31		N	MS	

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

NW 10/4/10

29

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-2A-22/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-029

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 83 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	19000		N	MS	
7440-36-0	Antimony	1.5	J	N	MS	
7440-38-2	Arsenic	5.8		N	MS	
7440-39-3	Barium	67		N	MS	
7440-41-7	Beryllium	2.3	~~U~~	N	MS	UL
7440-43-9	Cadmium	2.3	U	N	MS	
7440-70-2	Calcium	760		N	MS	K
7440-47-3	Chromium	29		N	MS	
7440-48-4	Cobalt	7.2		N	MS	
7440-50-8	Copper	37		N	MS	
7439-89-6	Iron	35000		N	MS	K
7439-92-1	Lead	360		N	MS	
7439-95-4	Magnesium	1400		N	MS	
7439-96-5	Manganese	160			MS	
7439-97-6	Mercury	3.7		N	MS	
7440-02-0	Nickel	13		N	MS	
7440-09-7	Potassium	750		N	MS	
7782-49-2	Selenium	2.3	U	N	MS	
7440-22-4	Silver	2.3	U	N	MS	
7440-23-5	Sodium	47	U	N	MS	
7440-28-0	Thallium	0.5	U	N	MS	
7440-62-2	Vanadium	55		N	MS	
7440-66-6	Zinc	190		N	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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10/11/10

FORM IA - IN SW6020

30

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-2A-22/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-030

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 88 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	17000		N	MS	
7440-36-0	Antimony	2.7	U	N	MS	
7440-38-2	Arsenic	4.7		N	MS	
7440-39-3	Barium	59		N	MS	
7440-41-7	Beryllium	2.7	U	N	MS	UL
7440-43-9	Cadmium	2.7	U	N	MS	
7440-70-2	Calcium	190		N	MS	K
7440-47-3	Chromium	30		N	MS	
7440-48-4	Cobalt	8.1		N	MS	
7440-50-8	Copper	15		N	MS	
7439-89-6	Iron	25000		N	MS	K
7439-92-1	Lead	16		N	MS	
7439-95-4	Magnesium	1300		N	MS	
7439-96-5	Manganese	190			MS	
7439-97-6	Mercury	0.12		N	MS	
7440-02-0	Nickel	9.1		N	MS	
7440-09-7	Potassium	660		N	MS	
7782-49-2	Selenium	2.7	U	N	MS	
7440-22-4	Silver	2.7	U	N	MS	
7440-23-5	Sodium	54	U	N	MS	
7440-28-0	Thallium	0.5	U	N	MS	
7440-62-2	Vanadium	58		N	MS	
7440-66-6	Zinc	24		N	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 10/11/10

FORM IA - IN SW6020

31

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-25/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-031

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 91 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	7700		N	MS	
7440-36-0	Antimony	2.2	U	N	MS	
7440-38-2	Arsenic	3.2		N	MS	
7440-39-3	Barium	35		N	MS	
7440-41-7	Beryllium	2.2	U	N	MS	UL
7440-43-9	Cadmium	2.2	U	N	MS	
7440-70-2	Calcium	330		N	MS	K
7440-47-3	Chromium	14		N	MS	
7440-48-4	Cobalt	5.1		N	MS	
7440-50-8	Copper	9.4		N	MS	
7439-89-6	Iron	11000		N	MS	K
7439-92-1	Lead	41		N	MS	
7439-95-4	Magnesium	450		N	MS	
7439-96-5	Manganese	93			MS	
7439-97-6	Mercury	0.11		N	MS	
7440-02-0	Nickel	5.8		N	MS	
7440-09-7	Potassium	350		N	MS	
7782-49-2	Selenium	2.2	U	N	MS	
7440-22-4	Silver	2.2	U	N	MS	
7440-23-5	Sodium	45	U	N	MS	
7440-28-0	Thallium	0.4	U	N	MS	
7440-62-2	Vanadium	27		N	MS	
7440-66-6	Zinc	45		N	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 10/11/10

FORM IA - IN SW6020

32

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-25/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-032

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 82 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	21000		N	MS	
7440-36-0	Antimony	2.8	U	N	MS	
7440-38-2	Arsenic	7.1		N	MS	
7440-39-3	Barium	49		N	MS	
7440-41-7	Beryllium	2.8	U	N	MS	UL
7440-43-9	Cadmium	2.8	U	N	MS	
7440-70-2	Calcium	600		N	MS	K
7440-47-3	Chromium	32		N	MS	
7440-48-4	Cobalt	4.8		N	MS	
7440-50-8	Copper	12		N	MS	
7439-89-6	Iron	22000		N	MS	K
7439-92-1	Lead	11		N	MS	
7439-95-4	Magnesium	1400		N	MS	
7439-96-5	Manganese	76			MS	
7439-97-6	Mercury	0.07	J	N	MS	
7440-02-0	Nickel	11		N	MS	
7440-09-7	Potassium	990		N	MS	
7782-49-2	Selenium	2.8	U	N	MS	
7440-22-4	Silver	2.8	U	N	MS	
7440-23-5	Sodium	55	U	N	MS	
7440-28-0	Thallium	0.6	U	N	MS	
7440-62-2	Vanadium	49		N	MS	
7440-66-6	Zinc	22		N	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

WW
10/11/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-26/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052510
Matrix (soil/water): SOIL Lab Sample ID: 10052510-033
Level (low/med): LOW Date Received: 05/25/2010
% Solids: 87 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	17000		N	MS	
7440-36-0	Antimony	2.3	U	N	MS	
7440-38-2	Arsenic	6.2		N	MS	
7440-39-3	Barium	43		N	MS	
7440-41-7	Beryllium	2.3	~~U~~	N	MS	UL
7440-43-9	Cadmium	2.3	U	N	MS	
7440-70-2	Calcium	880		N	MS	K
7440-47-3	Chromium	24		N	MS	
7440-48-4	Cobalt	3.7		N	MS	
7440-50-8	Copper	24		N	MS	
7439-89-6	Iron	18000		N	MS	K
7439-92-1	Lead	44		N	MS	
7439-95-4	Magnesium	1100		N	MS	
7439-96-5	Manganese	61			MS	
7439-97-6	Mercury	0.10		N	MS	
7440-02-0	Nickel	9.8		N	MS	
7440-09-7	Potassium	850		N	MS	
7782-49-2	Selenium	2.3	U	N	MS	
7440-22-4	Silver	2.3	U	N	MS	
7440-23-5	Sodium	47	U	N	MS	
7440-28-0	Thallium	0.5	U	N	MS	
7440-62-2	Vanadium	38		N	MS	
7440-66-6	Zinc	140		N	MS	

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-26/2-4 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No: 10052510
Matrix (soil/water): SOIL Lab Sample ID: 10052510-034
Level (low/med): LOW Date Received: 05/25/2010
% Solids: 87 Batch #: 82770

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	8100		N	MS	
7440-36-0	Antimony	2.5	U	N	MS	
7440-38-2	Arsenic	2.7		N	MS	
7440-39-3	Barium	15		N	MS	
7440-41-7	Beryllium	2.5		N	MS	K
7440-43-9	Cadmium	2.5	U	N	MS	
7440-70-2	Calcium	110		N	MS	K
7440-47-3	Chromium	13		N	MS	J
7440-48-4	Cobalt	1.4	J	N	MS	
7440-50-8	Copper	5.2		N	MS	
7439-89-6	Iron	11000		N	MS	
7439-92-1	Lead	5.5		N	MS	
7439-95-4	Magnesium	580		N	MS	K
7439-96-5	Manganese	29		N	MS	K
7439-97-6	Mercury	0.10		N	MS	B
7440-02-0	Nickel	3.7		N	MS	
7440-09-7	Potassium	500		N	MS	K
7782-49-2	Selenium	2.5	U	N	MS	
7440-22-4	Silver	2.5	U	N	MS	
7440-23-5	Sodium	51		N	MS	K
7440-28-0	Thallium	0.5	U	N	MS	
7440-62-2	Vanadium	24		N	MS	K
7440-66-6	Zinc	10	J	N	MS	

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

MW
10/11/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-27/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-035

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 88 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	4000		N	MS	
7440-36-0	Antimony	2.5	U	N	MS	
7440-38-2	Arsenic	2.8		N	MS	
7440-39-3	Barium	9.7		N	MS	
7440-41-7	Beryllium	2.5	U	N	MS	UL
7440-43-9	Cadmium	2.5	U	N	MS	
7440-70-2	Calcium	160		N	MS	K
7440-47-3	Chromium	11		N	MS	
7440-48-4	Cobalt	2.5	U	N	MS	
7440-50-8	Copper	2.1	J	N	MS	
7439-89-6	Iron	3700		N	MS	K
7439-92-1	Lead	5.4		N	MS	
7439-95-4	Magnesium	50	U	N	MS	
7439-96-5	Manganese	6.8			MS	
7439-97-6	Mercury	0.10	U	N	MS	
7440-02-0	Nickel	2.5	U	N	MS	
7440-09-7	Potassium	470		N	MS	
7782-49-2	Selenium	2.5	U	N	MS	
7440-22-4	Silver	2.5	U	N	MS	
7440-23-5	Sodium	50	U	N	MS	
7440-28-0	Thallium	0.5	U	N	MS	
7440-62-2	Vanadium	20		N	MS	
7440-66-6	Zinc	10	U	N	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
10/1/10

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-2A-27/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-036

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 95 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	660		N	MS	
7440-36-0	Antimony	2.2	U	N	MS	
7440-38-2	Arsenic	0.55		N	MS	
7440-39-3	Barium	2.6		N	MS	
7440-41-7	Beryllium	2.2	U	N	MS	UL
7440-43-9	Cadmium	2.2	U	N	MS	
7440-70-2	Calcium	44		N	MS	K
7440-47-3	Chromium	1.8	J	N	MS	
7440-48-4	Cobalt	2.2	U	N	MS	
7440-50-8	Copper	2.2	U	N	MS	
7439-89-6	Iron	1400		N	MS	K
7439-92-1	Lead	1.7	J	N	MS	
7439-95-4	Magnesium	44	U	N	MS	
7439-96-5	Manganese	1.2			MS	
7439-97-6	Mercury	0.09	U	N	MS	
7440-02-0	Nickel	2.2	U	N	MS	
7440-09-7	Potassium	92		N	MS	
7782-49-2	Selenium	2.2	U	N	MS	
7440-22-4	Silver	2.2	U	N	MS	
7440-23-5	Sodium	44	U	N	MS	
7440-28-0	Thallium	0.4	U	N	MS	
7440-62-2	Vanadium	4.5		N	MS	
7440-66-6	Zinc	8.9	U	N	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 10/11/10

FORM IA - IN SW6020

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-2A-28/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-037

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 90 Batch #: 83301

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8100			MS
7440-36-0	Antimony	2.7	U		MS
7440-38-2	Arsenic	3.5			MS
7440-39-3	Barium	140			MS
7440-41-7	Beryllium	2.7			MS
7440-43-9	Cadmium	2.7	U		MS
7440-70-2	Calcium	100			MS
7440-47-3	Chromium	25			MS
7440-48-4	Cobalt	27			MS
7440-50-8	Copper	20			MS
7439-89-6	Iron	30000			MS K
7439-92-1	Lead	37			MS
7439-95-4	Magnesium	110			MS
7439-96-5	Manganese	910			MS
7439-97-6	Mercury	0.10	J		MS
7440-02-0	Nickel	5.9			MS
7440-09-7	Potassium	210			MS
7782-49-2	Selenium	2.7	U		MS
7440-22-4	Silver	2.7	U		MS
7440-23-5	Sodium	54	U		MS
7440-28-0	Thallium	0.5	U		MS
7440-62-2	Vanadium	89			MS
7440-66-6	Zinc	26			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 10/11/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-28/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052510
Matrix (soil/water): SOIL Lab Sample ID: 10052510-038
Level (low/med): LOW Date Received: 05/25/2010
% Solids: 89 Batch #: 83301

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8300			MS
7440-36-0	Antimony	2.6	U		MS
7440-38-2	Arsenic	4.0			MS
7440-39-3	Barium	230			MS
7440-41-7	Beryllium	2.6			MS
7440-43-9	Cadmium	2.6	U		MS
7440-70-2	Calcium	160			MS
7440-47-3	Chromium	26			MS
7440-48-4	Cobalt	49			MS
7440-50-8	Copper	26			MS
7439-89-6	Iron	28000			MS K
7439-92-1	Lead	61			MS
7439-95-4	Magnesium	170			MS
7439-96-5	Manganese	1300			MS
7439-97-6	Mercury	0.19			MS
7440-02-0	Nickel	9.0			MS
7440-09-7	Potassium	320			MS
7782-49-2	Selenium	2.6	U		MS
7440-22-4	Silver	2.6	U		MS
7440-23-5	Sodium	52	U		MS
7440-28-0	Thallium	0.49	J		MS
7440-62-2	Vanadium	110			MS
7440-66-6	Zinc	43			MS

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

MW 10/11/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-29/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510
Matrix (soil/water): SOIL Lab Sample ID: 10052510-039
Level (low/med): LOW Date Received: 05/25/2010
% Solids: 85 Batch #: 83301

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	20000			MS
7440-36-0	Antimony	2.7	U		MS
7440-38-2	Arsenic	3.6			MS
7440-39-3	Barium	61			MS
7440-41-7	Beryllium	2.7			MS
7440-43-9	Cadmium	2.7	U		MS
7440-70-2	Calcium	1000			MS
7440-47-3	Chromium	15			MS
7440-48-4	Cobalt	7.8			MS
7440-50-8	Copper	110			MS
7439-89-6	Iron	24000			MS K
7439-92-1	Lead	54			MS
7439-95-4	Magnesium	1400			MS
7439-96-5	Manganese	180			MS
7439-97-6	Mercury	0.24			MS
7440-02-0	Nickel	11			MS
7440-09-7	Potassium	620			MS
7782-49-2	Selenium	2.7	U		MS
7440-22-4	Silver	2.7	U		MS
7440-23-5	Sodium	31	J		MS
7440-28-0	Thallium	0.5	U		MS
7440-62-2	Vanadium	60			MS
7440-66-6	Zinc	38			MS

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-29/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-040

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 79 Batch #: 83301

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	35000			MS
7440-36-0	Antimony	3.0	U		MS
7440-38-2	Arsenic	0.70			MS
7440-39-3	Barium	53			MS
7440-41-7	Beryllium	3.0			MS
7440-43-9	Cadmium	3.0	U		MS
7440-70-2	Calcium	43	J		MS
7440-47-3	Chromium	2.1	J		MS
7440-48-4	Cobalt	4.4			MS
7440-50-8	Copper	10			MS
7439-89-6	Iron	18000			MS K
7439-92-1	Lead	2.8	J		MS
7439-95-4	Magnesium	1600			MS
7439-96-5	Manganese	67			MS
7439-97-6	Mercury	0.14			MS
7440-02-0	Nickel	5.6			MS
7440-09-7	Potassium	1300			MS
7782-49-2	Selenium	3.0	U		MS
7440-22-4	Silver	3.0	U		MS
7440-23-5	Sodium	60	U		MS
7440-28-0	Thallium	0.6	U		MS
7440-62-2	Vanadium	45			MS
7440-66-6	Zinc	19			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 10/11/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-32/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510
Matrix (soil/water): SOIL Lab Sample ID: 10052510-041
Level (low/med): LOW Date Received: 05/25/2010
% Solids: 91 Batch #: 83301

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3800			MS
7440-36-0	Antimony	2.4	U		MS
7440-38-2	Arsenic	15			MS
7440-39-3	Barium	78			MS
7440-41-7	Beryllium	2.4			MS
7440-43-9	Cadmium	2.4	U		MS
7440-70-2	Calcium	1800			MS
7440-47-3	Chromium	7.1			MS
7440-48-4	Cobalt	3.3			MS
7440-50-8	Copper	17			MS
7439-89-6	Iron	11000			MS K
7439-92-1	Lead	22			MS
7439-95-4	Magnesium	370			MS
7439-96-5	Manganese	31			MS
7439-97-6	Mercury	0.19			MS
7440-02-0	Nickel	17			MS
7440-09-7	Potassium	230			MS
7782-49-2	Selenium	2.4	U		MS
7440-22-4	Silver	2.4	U		MS
7440-23-5	Sodium	180			MS
7440-28-0	Thallium	0.5	U		MS
7440-62-2	Vanadium	13			MS
7440-66-6	Zinc	47			MS

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

MW 10/11/10

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-32/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-042

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 89 Batch #: 83301

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12000			MS
7440-36-0	Antimony	2.5	U		MS
7440-38-2	Arsenic	9.2			MS
7440-39-3	Barium	28			MS
7440-41-7	Beryllium	2.5			MS
7440-43-9	Cadmium	2.5	U		MS
7440-70-2	Calcium	410			MS
7440-47-3	Chromium	44			MS
7440-48-4	Cobalt	1.6	J		MS
7440-50-8	Copper	12			MS
7439-89-6	Iron	31000			MS K
7439-92-1	Lead	10			MS
7439-95-4	Magnesium	410			MS
7439-96-5	Manganese	45			MS
7439-97-6	Mercury	0.35			MS
7440-02-0	Nickel	3.2			MS
7440-09-7	Potassium	480			MS
7782-49-2	Selenium	2.5	U		MS
7440-22-4	Silver	2.5	U		MS
7440-23-5	Sodium	50	U		MS
7440-28-0	Thallium	0.5	U		MS
7440-62-2	Vanadium	63			MS
7440-66-6	Zinc	11			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 10/11/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-33/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052510
Matrix (soil/water): SOIL Lab Sample ID: 10052510-043
Level (low/med): LOW Date Received: 05/25/2010
% Solids: 85 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	13000		N	MS	K
7440-36-0	Antimony	2.2	U	N	MS	
7440-38-2	Arsenic	3.2		N	MS	
7440-39-3	Barium	21		N	MS	
7440-41-7	Beryllium	2.2	U	N	MS	
7440-43-9	Cadmium	2.2	U	N	MS	
7440-70-2	Calcium	420		N	MS	B
7440-47-3	Chromium	20		N	MS	K
7440-48-4	Cobalt	2.9		N	MS	
7440-50-8	Copper	7.4		N	MS	
7439-89-6	Iron	16000		N	MS	J
7439-92-1	Lead	8.0		N	MS	
7439-95-4	Magnesium	910		N	MS	
7439-96-5	Manganese	48		N	MS	
7439-97-6	Mercury	0.09	U	N	MS	
7440-02-0	Nickel	5.9		N	MS	
7440-09-7	Potassium	670		N	MS	
7782-49-2	Selenium	2.2	U	N	MS	
7440-22-4	Silver	2.2	U	N	MS	
7440-23-5	Sodium	43	U	N	MS	
7440-28-0	Thallium	0.4	U	N	MS	
7440-62-2	Vanadium	34		N	MS	K
7440-66-6	Zinc	16		N	MS	B

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

MW 10/11/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-33/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052510
Matrix (soil/water): SOIL Lab Sample ID: 10052510-044
Level (low/med): LOW Date Received: 05/25/2010
% Solids: 86 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	5800		N	MS	K
7440-36-0	Antimony	2.3	U	N	MS	
7440-38-2	Arsenic	5.0		N	MS	
7440-39-3	Barium	14		N	MS	
7440-41-7	Beryllium	2.3	U	N	MS	
7440-43-9	Cadmium	2.3	U	N	MS	
7440-70-2	Calcium	110		N	MS	B
7440-47-3	Chromium	26		N	MS	K
7440-48-4	Cobalt	2.3	U	N	MS	
7440-50-8	Copper	8.9		N	MS	
7439-89-6	Iron	24000		N	MS	J
7439-92-1	Lead	6.8		N	MS	
7439-95-4	Magnesium	160		N	MS	
7439-96-5	Manganese	5.6		N	MS	
7439-97-6	Mercury	0.09	U	N	MS	
7440-02-0	Nickel	2.3	U	N	MS	
7440-09-7	Potassium	480		N	MS	
7782-49-2	Selenium	2.3	U	N	MS	
7440-22-4	Silver	2.3	U	N	MS	
7440-23-5	Sodium	46	U	N	MS	
7440-28-0	Thallium	0.5	U	N	MS	
7440-62-2	Vanadium	22		N	MS	K
7440-66-6	Zinc	9.1	U	N	MS	

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

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10/11/10

FORM IA - IN SW6020

45

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-34/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510
Matrix (soil/water): SOIL Lab Sample ID: 10052510-045
Level (low/med): LOW Date Received: 05/25/2010
% Solids: 88 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	22000		N	MS	K
7440-36-0	Antimony	2.3	U	N	MS	
7440-38-2	Arsenic	5.3		N	MS	
7440-39-3	Barium	39		N	MS	
7440-41-7	Beryllium	2.3	U	N	MS	
7440-43-9	Cadmium	2.3	U	N	MS	
7440-70-2	Calcium	2700		N	MS	
7440-47-3	Chromium	30		N	MS	K
7440-48-4	Cobalt	3.3		N	MS	
7440-50-8	Copper	11		N	MS	
7439-89-6	Iron	29000		N	MS	J
7439-92-1	Lead	14		N	MS	
7439-95-4	Magnesium	860		N	MS	
7439-96-5	Manganese	54		N	MS	
7439-97-6	Mercury	0.09	U	N	MS	
7440-02-0	Nickel	7.4		N	MS	
7440-09-7	Potassium	760		N	MS	
7782-49-2	Selenium	2.3	U	N	MS	
7440-22-4	Silver	2.3	U	N	MS	
7440-23-5	Sodium	47	U	N	MS	
7440-28-0	Thallium	0.5	U	N	MS	
7440-62-2	Vanadium	51		N	MS	K
7440-66-6	Zinc	22		N	MS	B

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

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FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-34/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052510
Matrix (soil/water): SOIL Lab Sample ID: 10052510-046
Level (low/med): LOW Date Received: 05/25/2010
% Solids: 84 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	8400		N	MS	K
7440-36-0	Antimony	2.9	U	N	MS	
7440-38-2	Arsenic	7.1		N	MS	
7440-39-3	Barium	19		N	MS	
7440-41-7	Beryllium	2.9	U	N	MS	
7440-43-9	Cadmium	2.9	U	N	MS	
7440-70-2	Calcium	400		N	MS	
7440-47-3	Chromium	24		N	MS	K
7440-48-4	Cobalt	2.9	U	N	MS	
7440-50-8	Copper	8.9		N	MS	
7439-89-6	Iron	34000		N	MS	J
7439-92-1	Lead	8.5		N	MS	
7439-95-4	Magnesium	240		N	MS	
7439-96-5	Manganese	5.9		N	MS	
7439-97-6	Mercury	0.12	U	N	MS	
7440-02-0	Nickel	1.5	J	N	MS	
7440-09-7	Potassium	650		N	MS	
7782-49-2	Selenium	2.9	U	N	MS	
7440-22-4	Silver	2.9	U	N	MS	
7440-23-5	Sodium	58	U	N	MS	
7440-28-0	Thallium	0.6	U	N	MS	
7440-62-2	Vanadium	35		N	MS	K
7440-66-6	Zinc	12	U	N	MS	

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

UW
FORM IA - IN 10/11/10 SW6020

47

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-2A-35/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-047

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 94 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	8100		N	MS	K
7440-36-0	Antimony	2.4	U	N	MS	
7440-38-2	Arsenic	2.2		N	MS	
7440-39-3	Barium	35		N	MS	
7440-41-7	Beryllium	2.4	U	N	MS	
7440-43-9	Cadmium	2.4	U	N	MS	
7440-70-2	Calcium	430		N	MS	
7440-47-3	Chromium	10		N	MS	K
7440-48-4	Cobalt	4.1		N	MS	
7440-50-8	Copper	7.5		N	MS	
7439-89-6	Iron	11000		N	MS	J
7439-92-1	Lead	13		N	MS	
7439-95-4	Magnesium	360		N	MS	
7439-96-5	Manganese	160		N	MS	
7439-97-6	Mercury	0.10	U	N	MS	
7440-02-0	Nickel	4.4		N	MS	
7440-09-7	Potassium	320		N	MS	
7782-49-2	Selenium	2.4	U	N	MS	
7440-22-4	Silver	2.4	U	N	MS	
7440-23-5	Sodium	49	U	N	MS	
7440-28-0	Thallium	0.5	U	N	MS	
7440-62-2	Vanadium	30		N	MS	K
7440-66-6	Zinc	25		~~N~~	MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

LW 10/11/10

FORM IA - IN SW6020

48

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-35/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-048

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 95 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	1800		N	MS	K
7440-36-0	Antimony	2.1	U	N	MS	
7440-38-2	Arsenic	0.58		N	MS	
7440-39-3	Barium	19		N	MS	
7440-41-7	Beryllium	2.1	U	N	MS	
7440-43-9	Cadmium	2.1	U	N	MS	
7440-70-2	Calcium	420		N	MS	
7440-47-3	Chromium	5.2		N	MS	K
7440-48-4	Cobalt	2.1	U	N	MS	
7440-50-8	Copper	1.2	J	N	MS	
7439-89-6	Iron	2000		N	MS	J
7439-92-1	Lead	4.8		N	MS	
7439-95-4	Magnesium	55		N	MS	
7439-96-5	Manganese	8.9		N	MS	
7439-97-6	Mercury	0.08	U	N	MS	
7440-02-0	Nickel	2.1	U	N	MS	
7440-09-7	Potassium	100		N	MS	
7782-49-2	Selenium	2.1	U	N	MS	
7440-22-4	Silver	2.1	U	N	MS	
7440-23-5	Sodium	42	U	N	MS	
7440-28-0	Thallium	0.4	U	N	MS	
7440-62-2	Vanadium	6.6		N	MS	K
7440-66-6	Zinc	8.4	U	N	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 10/11/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-37/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510
Matrix (soil/water): SOIL Lab Sample ID: 10052510-049
Level (low/med): LOW Date Received: 05/25/2010
% Solids: 94 Batch #: 82876

Concentration Units (ug/L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	4800		N	MS	K
7440-36-0	Antimony	2.0	U	N	MS	
7440-38-2	Arsenic	3.7		N	MS	
7440-39-3	Barium	19		N	MS	
7440-41-7	Beryllium	2.0	U	N	MS	
7440-43-9	Cadmium	2.0	U	N	MS	
7440-70-2	Calcium	420		N	MS	
7440-47-3	Chromium	27		N	MS	K
7440-48-4	Cobalt	2.6		N	MS	
7440-50-8	Copper	7.9		N	MS	
7439-89-6	Iron	9600		N	MS	J
7439-92-1	Lead	22		N	MS	
7439-95-4	Magnesium	290		N	MS	
7439-96-5	Manganese	71		N	MS	
7439-97-6	Mercury	0.07	J	N	MS	
7440-02-0	Nickel	3.6		N	MS	
7440-09-7	Potassium	200		N	MS	
7782-49-2	Selenium	2.0	U	N	MS	
7440-22-4	Silver	2.0	U	N	MS	
7440-23-5	Sodium	40	U	N	MS	
7440-28-0	Thallium	0.4	U	N	MS	
7440-62-2	Vanadium	31		N	MS	K
7440-66-6	Zinc	39		N	MS	B

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

FORM IA - IN 10/11/10 SW6020

50

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-37/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-050

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 89 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	9000		N	MS	K
7440-36-0	Antimony	2.2	U	N	MS	
7440-38-2	Arsenic	6.6		N	MS	
7440-39-3	Barium	18		N	MS	
7440-41-7	Beryllium	2.2	U	N	MS	
7440-43-9	Cadmium	2.2	U	N	MS	
7440-70-2	Calcium	360		N	MS	B
7440-47-3	Chromium	39		N	MS	K
7440-48-4	Cobalt	1.6	J	N	MS	
7440-50-8	Copper	9.7		N	MS	
7439-89-6	Iron	17000		N	MS	J
7439-92-1	Lead	9.0		N	MS	
7439-95-4	Magnesium	270		N	MS	
7439-96-5	Manganese	38		N	MS	
7439-97-6	Mercury	0.09	U	N	MS	
7440-02-0	Nickel	2.9		N	MS	
7440-09-7	Potassium	320		N	MS	
7782-49-2	Selenium	2.2	U	N	MS	
7440-22-4	Silver	2.2	U	N	MS	
7440-23-5	Sodium	45	U	N	MS	
7440-28-0	Thallium	0.4	U	N	MS	
7440-62-2	Vanadium	71		N	MS	K
7440-66-6	Zinc	9.7		~~N~~ K	MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
10/11/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-38/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No.: 10052510
Matrix (soil/water): SOIL Lab Sample ID: 10052510-051
Level (low/med): LOW Date Received: 05/25/2010
% Solids: 94 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	8600		N	MS	K
7440-36-0	Antimony	2.5	U	N	MS	
7440-38-2	Arsenic	4.2		N	MS	
7440-39-3	Barium	43		N	MS	
7440-41-7	Beryllium	2.5	U	N	MS	
7440-43-9	Cadmium	2.5	U	N	MS	
7440-70-2	Calcium	810		N	MS	
7440-47-3	Chromium	17		N	MS	K
7440-48-4	Cobalt	4.3		N	MS	
7440-50-8	Copper	11		N	MS	
7439-89-6	Iron	20000		N	MS	J
7439-92-1	Lead	28		N	MS	
7439-95-4	Magnesium	550		N	MS	
7439-96-5	Manganese	120		N	MS	
7439-97-6	Mercury	0.07	J	N	MS	
7440-02-0	Nickel	7.7		N	MS	
7440-09-7	Potassium	340		N	MS	
7782-49-2	Selenium	2.5	U	N	MS	
7440-22-4	Silver	2.5	U	N	MS	
7440-23-5	Sodium	51	U	N	MS	
7440-28-0	Thallium	0.5	U	N	MS	
7440-62-2	Vanadium	45		N	MS	K
7440-66-6	Zinc	40		N	MS	B

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

MW
10/11/10

FORM IA - IN SW6020

52

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-38/2-4 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-052

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 85 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	6000		N	MS	K
7440-36-0	Antimony	2.5	U	N	MS	
7440-38-2	Arsenic	3.5		N	MS	
7440-39-3	Barium	13		N	MS	
7440-41-7	Beryllium	2.5	U	N	MS	
7440-43-9	Cadmium	2.5	U	N	MS	
7440-70-2	Calcium	150		N	MS	B
7440-47-3	Chromium	35		N	MS	K
7440-48-4	Cobalt	2.5	U	N	MS	
7440-50-8	Copper	5.5		N	MS	
7439-89-6	Iron	12000		N	MS	J
7439-92-1	Lead	7.1		N	MS	
7439-95-4	Magnesium	140		N	MS	
7439-96-5	Manganese	4.8		N	MS	
7439-97-6	Mercury	0.10	U	N	MS	
7440-02-0	Nickel	2.5	U	N	MS	
7440-09-7	Potassium	540		N	MS	
7782-49-2	Selenium	2.5	U	N	MS	
7440-22-4	Silver	2.5	U	N	MS	
7440-23-5	Sodium	50	U	N	MS	
7440-28-0	Thallium	0.5	U	N	MS	
7440-62-2	Vanadium	51		N	MS	K
7440-66-6	Zinc	9.9	U	N	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 10/11/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-1/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-053

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 88 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.7	U	N	MS	
7440-38-2	Arsenic	2.8		N	MS	
7440-41-7	Beryllium	2.7	U	N	MS	
7440-43-9	Cadmium	2.7	U	N	MS	
7440-47-3	Chromium	33		N	MS	K
7440-50-8	Copper	17		N	MS	
7439-92-1	Lead	15		N	MS	
7439-97-6	Mercury	0.11	U	N	MS	
7440-02-0	Nickel	36		N	MS	
7782-49-2	Selenium	2.7	U	N	MS	
7440-22-4	Silver	2.7	U	N	MS	
7440-28-0	Thallium	0.5	U	N	MS	
7440-66-6	Zinc	45		N	MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

54

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-14-1/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-054

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 85 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.0		N	MS	B
7440-38-2	Arsenic	5.9		N	MS	
7440-41-7	Beryllium	3.1		N	MS	
7440-43-9	Cadmium	5.5		N	MS	
7440-47-3	Chromium	27		N	MS	K
7440-50-8	Copper	21		N	MS	
7439-92-1	Lead	18		N	MS	
7439-97-6	Mercury	0.11		N	MS	
7440-02-0	Nickel	20		N	MS	
7782-49-2	Selenium	3.3		N	MS	
7440-22-4	Silver	2.6	U	N	MS	
7440-28-0	Thallium	1.3		N	MS	
7440-66-6	Zinc	17		N	MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
10/11/10

55

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-2/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-055

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 88 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.7	U	N	MS	
7440-38-2	Arsenic	3.8		N	MS	
7440-41-7	Beryllium	2.7	U	N	MS	
7440-43-9	Cadmium	2.7	U	N	MS	
7440-47-3	Chromium	44		N	MS	K
7440-50-8	Copper	42		N	MS	
7439-92-1	Lead	14		N	MS	
7439-97-6	Mercury	0.11	U	N	MS	
7440-02-0	Nickel	46		N	MS	
7782-49-2	Selenium	2.7	U	N	MS	
7440-22-4	Silver	2.7	U	N	MS	
7440-28-0	Thallium	0.5	U	N	MS	
7440-66-6	Zinc	32		N	MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN MW 10/11/10 SW6020

56

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-2/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-056

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 89 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.1	U	N	MS	
7440-38-2	Arsenic	4.5		N	MS	
7440-41-7	Beryllium	2.1	U	N	MS	
7440-43-9	Cadmium	2.1	U	N	MS	
7440-47-3	Chromium	22		N	MS	K
7440-50-8	Copper	6.8		N	MS	
7439-92-1	Lead	8.1		N	MS	
7439-97-6	Mercury	0.04	J	N	MS	
7440-02-0	Nickel	5.3		N	MS	
7782-49-2	Selenium	2.1	U	N	MS	
7440-22-4	Silver	2.1	U	N	MS	
7440-28-0	Thallium	0.4	U	N	MS	
7440-66-6	Zinc	13		N	MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN 10/11/10 SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-UST-1/8-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-057

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 71 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.3	U	N	MS	
7440-38-2	Arsenic	1.3		N	MS	
7440-41-7	Beryllium	3.3	U	N	MS	
7440-43-9	Cadmium	3.3	U	N	MS	
7440-47-3	Chromium	140		N	MS	K
7440-50-8	Copper	110		N	MS	
7439-92-1	Lead	3.0	J	N	MS	
7439-97-6	Mercury	0.13	U	N	MS	
7440-02-0	Nickel	72		N	MS	
7782-49-2	Selenium	3.3	U	N	MS	
7440-22-4	Silver	3.3	U	N	MS	
7440-28-0	Thallium	0.7	U	N	MS	
7440-66-6	Zinc	62		N	MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

58

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-14-UST-2/8-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-058

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 71 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.3	U	N	MS	
7440-38-2	Arsenic	1.4		N	MS	
7440-41-7	Beryllium	3.3	U	N	MS	
7440-43-9	Cadmium	3.3	U	N	MS	
7440-47-3	Chromium	74		N	MS	K
7440-50-8	Copper	140		N	MS	
7439-92-1	Lead	3.3		N	MS	
7439-97-6	Mercury	0.13	U	N	MS	
7440-02-0	Nickel	67		N	MS	
7782-49-2	Selenium	3.3	U	N	MS	
7440-22-4	Silver	3.3	U	N	MS	
7440-28-0	Thallium	0.7	U	N	MS	
7440-66-6	Zinc	54		~~N~~	MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN MW 10/11/10 SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-14-03

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10052510
Matrix (soil/water): SOIL Lab Sample ID: 10052510-059
Level (low/med): LOW Date Received: 05/25/2010
% Solids: 71 Batch #: 82876
Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.7	U	N	MS	
7440-38-2	Arsenic	1.2		N	MS	
7440-41-7	Beryllium	2.7	U	N	MS	
7440-43-9	Cadmium	2.7	U	N	MS	
7440-47-3	Chromium	120		N	MS	K
7440-50-8	Copper	100		N	MS	
7439-92-1	Lead	3.0		N	MS	
7439-97-6	Mercury	0.11	U	N	MS	
7440-02-0	Nickel	65		N	MS	
7782-49-2	Selenium	2.7	U	N	MS	
7440-22-4	Silver	2.7	U	N	MS	
7440-28-0	Thallium	0.5	U	N	MS	
7440-66-6	Zinc	55		N	MS	B

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-2A-07

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-060

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 88 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	21000		N	MS	K
7440-36-0	Antimony	2.7	U	N	MS	
7440-38-2	Arsenic	3.4		N	MS	
7440-39-3	Barium	180		N	MS	
7440-41-7	Beryllium	2.7	U	N	MS	
7440-43-9	Cadmium	2.7	U	N	MS	
7440-70-2	Calcium	5400		N	MS	
7440-47-3	Chromium	15		N	MS	K
7440-48-4	Cobalt	13		N	MS	
7440-50-8	Copper	35		N	MS	
7439-89-6	Iron	61000		N	MS	J
7439-92-1	Lead	29		N	MS	
7439-95-4	Magnesium	760		N	MS	
7439-96-5	Manganese	1200		N	MS	
7439-97-6	Mercury	0.11	U	N	MS	
7440-02-0	Nickel	8.3		N	MS	
7440-09-7	Potassium	450		N	MS	
7782-49-2	Selenium	2.7	U	N	MS	
7440-22-4	Silver	2.7	U	N	MS	
7440-23-5	Sodium	54	U	N	MS	
7440-28-0	Thallium	0.5	U	N	MS	
7440-62-2	Vanadium	150		N	MS	K
7440-66-6	Zinc	39		~~N~~	MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
10/11/10

FORM IA - IN SW6020

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-2A-08

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-061

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 84 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	19000		N	MS	K
7440-36-0	Antimony	2.2	U	N	MS	
7440-38-2	Arsenic	6.0		N	MS	
7440-39-3	Barium	67		N	MS	
7440-41-7	Beryllium	2.2	U	N	MS	
7440-43-9	Cadmium	2.2	U	N	MS	
7440-70-2	Calcium	480		N	MS	
7440-47-3	Chromium	26		N	MS	K
7440-48-4	Cobalt	11		N	MS	
7440-50-8	Copper	17		N	MS	
7439-89-6	Iron	27000		N	MS	J
7439-92-1	Lead	10		N	MS	
7439-95-4	Magnesium	2800		N	MS	
7439-96-5	Manganese	310		N	MS	
7439-97-6	Mercury	0.09	U	N	MS	
7440-02-0	Nickel	16		N	MS	
7440-09-7	Potassium	1100		N	MS	
7782-49-2	Selenium	2.2	U	N	MS	
7440-22-4	Silver	2.2	U	N	MS	
7440-23-5	Sodium	32	J	N	MS	
7440-28-0	Thallium	0.4	U	N	MS	
7440-62-2	Vanadium	56		N	MS	K
7440-66-6	Zinc	34		N	MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

HW 10/11/10

FORM IA - IN SW6020

62

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-AOC-2A-09

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-062

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 92 Batch #: 82876

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	8500		N	MS	K
7440-36-0	Antimony	2.7	U	N	MS	
7440-38-2	Arsenic	4.1		N	MS	
7440-39-3	Barium	510		N	MS	
7440-41-7	Beryllium	2.7	U	N	MS	
7440-43-9	Cadmium	2.7	U	N	MS	
7440-70-2	Calcium	310		N	MS	B
7440-47-3	Chromium	36		N	MS	K
7440-48-4	Cobalt	110		N	MS	
7440-50-8	Copper	44		N	MS	
7439-89-6	Iron	43000		N	MS	J
7439-92-1	Lead	69		N	MS	
7439-95-4	Magnesium	140		N	MS	
7439-96-5	Manganese	3000		N	MS	
7439-97-6	Mercury	0.11	U	N	MS	
7440-02-0	Nickel	13		N	MS	
7440-09-7	Potassium	250		N	MS	
7782-49-2	Selenium	2.7	U	N	MS	
7440-22-4	Silver	2.7	U	N	MS	
7440-23-5	Sodium	53	U	N	MS	
7440-28-0	Thallium	0.79		N	MS	
7440-62-2	Vanadium	130		N	MS	K
7440-66-6	Zinc	52		N	MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

KW 10/11/10

FORM IA - IN SW6020

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-AOC-2A-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-063

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 91 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	11000			MS	
7440-36-0	Antimony	2.2	U		MS	
7440-38-2	Arsenic	5.7			MS	
7440-39-3	Barium	63			MS	
7440-41-7	Beryllium	2.2	~~U~~	~~N~~	MS	UL
7440-43-9	Cadmium	2.2	U		MS	
7440-70-2	Calcium	530		~~N~~	MS	K
7440-47-3	Chromium	15			MS	
7440-48-4	Cobalt	9.8			MS	
7440-50-8	Copper	22			MS	
7439-89-6	Iron	12000		~~N~~	MS	K
7439-92-1	Lead	48			MS	
7439-95-4	Magnesium	550			MS	
7439-96-5	Manganese	220			MS	
7439-97-6	Mercury	2.0			MS	
7440-02-0	Nickel	7.7			MS	
7440-09-7	Potassium	340			MS	
7782-49-2	Selenium	2.2	U		MS	
7440-22-4	Silver	2.2	U		MS	
7440-23-5	Sodium	43	U		MS	
7440-28-0	Thallium	0.4	U		MS	
7440-62-2	Vanadium	27			MS	
7440-66-6	Zinc	63			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
10/16/10

FORM IA - IN SW6020

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-AOC-2A-11

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-064

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 92 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	13000			MS	
7440-36-0	Antimony	2.0	U		MS	
7440-38-2	Arsenic	3.3			MS	
7440-39-3	Barium	57			MS	
7440-41-7	Beryllium	2.0	~~U~~	~~N~~	MS	UL
7440-43-9	Cadmium	2.0	U		MS	
7440-70-2	Calcium	490		~~N~~	MS	K
7440-47-3	Chromium	18			MS	
7440-48-4	Cobalt	5.2			MS	
7440-50-8	Copper	9.9			MS	
7439-89-6	Iron	22000		~~N~~	MS	K
7439-92-1	Lead	21			MS	
7439-95-4	Magnesium	770			MS	
7439-96-5	Manganese	190			MS	
7439-97-6	Mercury	0.07	J		MS	
7440-02-0	Nickel	9.0			MS	
7440-09-7	Potassium	580			MS	
7782-49-2	Selenium	2.0	U		MS	
7440-22-4	Silver	2.0	U		MS	
7440-23-5	Sodium	40	U		MS	
7440-28-0	Thallium	0.4	U		MS	
7440-62-2	Vanadium	41			MS	
7440-66-6	Zinc	41			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN

RW 10/11/10

SW6020

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-AOC-2A-12

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052510

Matrix (soil/water): SOIL Lab Sample ID: 10052510-065

Level (low/med): LOW Date Received: 05/25/2010

% Solids: 81 Batch #: 82810

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	24000			MS	
7440-36-0	Antimony	2.6	U		MS	
7440-38-2	Arsenic	5.2			MS	
7440-39-3	Barium	85			MS	
7440-41-7	Beryllium	2.6	~~U~~	~~N~~	MS	UL
7440-43-9	Cadmium	2.6	U		MS	
7440-70-2	Calcium	840		~~N~~	MS	K
7440-47-3	Chromium	30			MS	
7440-48-4	Cobalt	14			MS	
7440-50-8	Copper	11			MS	
7439-89-6	Iron	21000		~~N~~	MS	K
7439-92-1	Lead	15			MS	
7439-95-4	Magnesium	1600			MS	
7439-96-5	Manganese	200			MS	
7439-97-6	Mercury	0.13			MS	
7440-02-0	Nickel	15			MS	
7440-09-7	Potassium	810			MS	
7782-49-2	Selenium	2.6	U		MS	
7440-22-4	Silver	2.6	U		MS	
7440-23-5	Sodium	52	U		MS	
7440-28-0	Thallium	0.33	J		MS	
7440-62-2	Vanadium	55			MS	
7440-66-6	Zinc	36			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN AW 10/11/10 SW6020

ENVIRONMENTAL
Data Services, Inc.

SEMIVOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10052419

Client: ARGO Systems, Glen Burnie, MD Date: October 10, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-1A(689)-1	10052419-047	Soil
2	AOC-45A-28	10052419-048	Soil
3	AOC-45A-54	10052419-049	Soil
4	AOC-45A-69	10052419-050	Soil
5	AOC-45A-76	10052419-051	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
05/28/10 (1550)	Several	High	None	See Surrogates

Surrogates - All samples exhibited acceptable surrogate recoveries except the following.

Sample ID	Surrogate	%R	Qualifier
1	S6= 2,4,6-Tribromophenol	108%	None for one out per fraction
2	S3= Nitrobenzene-d5	99%	None for one out per fraction

Sample ID	Surrogate	%R	Qualifier
3	S1= 2-Fluorobiphenyl	122%	J- All positive results
	S3= Nitrobenzene-d5	116%	
	S4= Phenol-d6	107%	
	S6= 2,4,6-Tribromophenol	122%	
4	S6= 2,4,6-Tribromophenol	114%	None for one out per fraction
5	S3= Nitrobenzene-d5	107%	None- ND
	S4= Phenol-d6	102%	
	S6= 2,4,6-Tribromophenol	119%	

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS sample exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate samples were not analyzed.

Tentatively Identified Compounds (TICs) - TICs were not reported.

Compound Quantitation - EDS sample ID# 3 was analyzed at a 10X dilution due to high concentrations of target compounds.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-1A(689)-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82699 Mod. Ref No.: _____ SDG No.: 10052419

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052419-047

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10052749.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/24/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/27/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/28/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	390	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	390	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	390	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

SW8270C

NW 10/10/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-1A(689)-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82699 Mod Ref No : _____ SDG No : 10052419

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052419-047

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10052749.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/24/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/27/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/28/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	77	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

pw 10/10/10

SW8270C

2

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-45A-28

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82699 Mod. Ref No.: _____ SDG No : 10052419

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052419-048

Sample wt/vol: 30.12 (g/mL): g Lab File ID: 10052750.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/24/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/27/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/28/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	140	J
50-32-8	Benzo(a)pyrene	120	
205-99-2	Benzo(b)fluoranthene	120	J
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	130	J
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	390	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	390	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	150	J
53-70-3	Dibenz(a,h)Anthracene	27	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	390	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	260	
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

SW8270C

pw 10/10/10

2

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-45A-28

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82699 Mod. Ref No.: _____ SDG No.: 10052419

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052419-048

Sample wt/vol: 30.12 (g/mL):g Lab File ID: 10052750.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/24/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/27/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/28/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	78	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	190	J
108-95-2	Phenol	200	U
129-00-0	Pyrene	270	
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

hw 10/10/10

SW8270C

3

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-45A-54

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82746 Mod Ref No : _____ SDG No.: 10052419

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052419-049

Sample wt/vol: 30.04 (g/mL): g Lab File ID: 10052816.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/24/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/27/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/28/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	1,900	U
208-96-8	Acenaphthylene	1,900	U
120-12-7	Anthracene	1,900	U
56-55-3	Benzo(a)anthracene	1,400	~~J~~ J
50-32-8	Benzo(a)pyrene	1,100	J
205-99-2	Benzo(b)fluoranthene	1,300	~~J~~ J
191-24-2	Benzo(g,h,i)perylene	1,900	U
207-08-9	Benzo(k)fluoranthene	1,500	~~J~~ J
111-44-4	bis(2-chloroethyl) ether	1,900	U
108-60-1	bis(2-chloroisopropyl) ether	1,900	U
117-81-7	bis(2-ethylhexyl) phthalate	1,900	U
84-74-2	Di-n-butyl phthalate	3,700	U
86-74-8	Carbazole	1,900	U
106-47-8	4-Chloroaniline	3,700	U
91-58-7	2-Chloronaphthalene	1,900	U
95-57-8	2-Chlorophenol	1,900	U
218-01-9	Chrysene	1,600	~~J~~ J
53-70-3	Dibenz(a,h)Anthracene	260	U
132-64-9	Dibenzofuran	1,900	U
95-50-1	1,2-Dichlorobenzene	1,900	U
541-73-1	1,3-Dichlorobenzene	1,900	U
106-46-7	1,4-Dichlorobenzene	1,900	U
91-94-1	3,3-Dichlorobenzidine	1,900	U
120-83-2	2,4-Dichlorophenol	1,900	U
84-66-2	Diethyl phthalate	1,900	U
105-67-9	2,4-Dimethylphenol	1,900	U
51-28-5	2,4-Dinitrophenol	3,700	U
121-14-2	2,4-Dinitrotoluene	1,900	U
606-20-2	2,6-Dinitrotoluene	1,900	U
206-44-0	Fluoranthene	2,500	J
86-73-7	Fluorene	1,900	U
118-74-1	Hexachlorobenzene	1,900	U
87-68-3	Hexachlorobutadiene	1,900	U
77-47-4	Hexachlorocyclopentadiene	1,900	U

SW8270C

lw 10/10/10

3

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-45A-54

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82746 Mod Ref No.: _____ SDG No.: 10052419

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052419-049

Sample wt/vol: 30.04 (g/mL):g Lab File ID: 10052816.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/24/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/27/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/28/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	1,900	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	1,900	U
78-59-1	Isophorone	1,900	U
91-57-6	2-Methylnaphthalene	1,900	U
95-48-7	2-Methyl phenol	1,900	U
	3&4-Methylphenol	1,900	U
91-20-3	Naphthalene	1,900	U
98-95-3	Nitrobenzene	1,900	U
621-64-7	N-Nitrosodi-n-propyl amine	750	U
86-30-6	N-Nitrosodiphenylamine (1)	1,900	U
87-86-5	Pentachlorophenol	3,700	U
85-01-8	Phenanthrene	1,300	~~J~~ J
108-95-2	Phenol	1,900	U
129-00-0	Pyrene	3,000	J
103-23-1	Bis(2-ethylhexyl)adipate	1,900	U
120-82-1	1,2,4-Trichlorobenzene	1,900	U
88-06-2	2,4,6-Trichlorophenol	1,900	U
95-95-4	2,4,5-Trichlorophenol	1,900	U

(1) Cannot be separated from Diphenylamine

KW 10/10/10

SW8270C

4

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-45A-69

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82699 Mod. Ref No : _____ SDG No.: 10052419

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052419-050

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10052748.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/24/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/27/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/28/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	37	
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
111-44-4	bis(2-chloroethyl) ether	210	U
108-60-1	bis(2-chloroisopropyl) ether	210	U
117-81-7	bis(2-ethylhexyl) phthalate	210	U
84-74-2	Di-n-butyl phthalate	410	U
86-74-8	Carbazole	210	U
106-47-8	4-Chloroaniline	410	U
91-58-7	2-Chloronaphthalene	210	U
95-57-8	2-Chlorophenol	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
132-64-9	Dibenzofuran	210	U
95-50-1	1,2-Dichlorobenzene	210	U
541-73-1	1,3-Dichlorobenzene	210	U
106-46-7	1,4-Dichlorobenzene	210	U
91-94-1	3,3-Dichlorobenzidine	210	U
120-83-2	2,4-Dichlorophenol	210	U
84-66-2	Diethyl phthalate	210	U
105-67-9	2,4-Dimethylphenol	210	U
51-28-5	2,4-Dinitrophenol	410	U
121-14-2	2,4-Dinitrotoluene	210	U
606-20-2	2,6-Dinitrotoluene	210	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
118-74-1	Hexachlorobenzene	210	U
87-68-3	Hexachlorobutadiene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U

SW8270C

MW 10/10/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-45A-69

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82699 Mod. Ref No : _____ SDG No.: 10052419

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052419-050

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10052748.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/24/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/27/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/28/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
78-59-1	Isophorone	210	U
91-57-6	2-Methylnaphthalene	210	U
95-48-7	2-Methyl phenol	210	U
	3&4-Methylphenol	210	U
91-20-3	Naphthalene	210	U
98-95-3	Nitrobenzene	210	U
621-64-7	N-Nitrosodi-n-propyl amine	82	U
86-30-6	N-Nitrosodiphenylamine (1)	210	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	210	U
108-95-2	Phenol	210	U
129-00-0	Pyrene	210	U
103-23-1	Bis(2-ethylhexyl)adipate	210	U
120-82-1	1,2,4-Trichlorobenzene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U

(1) Cannot be separated from Diphenylamine

SW8270C

KEJ 10/10/10

5

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-45A-76

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82699 Mod. Ref No.: _____ SDG No : 10052419

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052419-051

Sample wt/vol: 30.15 (g/mL): g Lab File ID: 10052752.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/24/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/27/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/28/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	31	
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
111-44-4	bis(2-chloroethyl) ether	180	U
108-60-1	bis(2-chloroisopropyl) ether	180	U
117-81-7	bis(2-ethylhexyl) phthalate	180	U
84-74-2	Di-n-butyl phthalate	370	U
86-74-8	Carbazole	180	U
106-47-8	4-Chloroaniline	370	U
91-58-7	2-Chloronaphthalene	180	U
95-57-8	2-Chlorophenol	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	180	U
95-50-1	1,2-Dichlorobenzene	180	U
541-73-1	1,3-Dichlorobenzene	180	U
106-46-7	1,4-Dichlorobenzene	180	U
91-94-1	3,3-Dichlorobenzidine	180	U
120-83-2	2,4-Dichlorophenol	180	U
84-66-2	Diethyl phthalate	180	U
105-67-9	2,4-Dimethylphenol	180	U
51-28-5	2,4-Dinitrophenol	370	U
121-14-2	2,4-Dinitrotoluene	180	U
606-20-2	2,6-Dinitrotoluene	180	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
118-74-1	Hexachlorobenzene	180	U
87-68-3	Hexachlorobutadiene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U

SW8270C

LW 10/10/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-45A-76

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82699 Mod Ref No.: _____ SDG No.: 10052419

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052419-051

Sample wt/vol: 30.15 (g/mL):g Lab File ID: 10052752.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/24/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/27/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/28/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	74	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	180	U
108-95-2	Phenol	180	U
129-00-0	Pyrene	180	U
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine

MW 10/10/10

SW8270C

ENVIRONMENTAL
Data Services, Inc.

PCBs
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10052419

Client: ARGO Systems, Glen Burnie, MD Date: October 10, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-1A(689)-1	10052419-047	Soil
2	AOC-45A-28	10052419-048	Soil
3	AOC-45A-54	10052419-049	Soil
4	AOC-45A-69	10052419-050	Soil
5	AOC-45A-76	10052419-051	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days.

Initial Calibration - The initial calibrations exhibited acceptable %RSD values.

Calibration Verification - The continuing calibrations exhibited acceptable %D values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate samples were not analyzed.

Compound Identification - Retention times were acceptable and no further action was taken.

Compound Quantitation - No discrepancies were identified.

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-1a(689)-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod Ref No _____ SDG No : 10052419

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052419-047

Sample wt/vol: 10.34 (g/mL): g Lab File ID: 10052829.D

% Moisture: 14 Decanted: (Y/N) CLEAR Date Received: 05/24/2010

Extraction : (Type) SONC Date Extracted: 05/27/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/28/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82724

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

kw 10/10/10

SW8082

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1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45a-28

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No _____ SDG No.: 10052419

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052419-048

Sample wt/vol: 10.41 (g/mL): g Lab File ID: 10052830.D

% Moisture: 15 Decanted: (Y/N) CLEAR Date Received: 05/24/2010

Extraction: (Type) SONC Date Extracted: 05/27/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 05/28/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82725

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

MW 10/10/10

SW8082

3

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45a-54

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No : 10052419

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052419-049

Sample wt/vol: 10.19 (g/mL): g Lab File ID: 10052831.D

% Moisture: 11 Decanted: (Y/N) CLEAR Date Received: 05/24/2010

Extraction : (Type) SONC Date Extracted: 05/27/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/28/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82724

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

MW 10/10/10

SW8082

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45a-69

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No. _____ SDG No.: 10052419

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052419-050

Sample wt/vol: 10.36 (g/mL): g Lab File ID: 10052832.D

% Moisture: 19 Decanted: (Y/N) CLEAR Date Received: 05/24/2010

Extraction : (Type) SONC Date Extracted: 05/27/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/28/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82725

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

AW 10/10/10

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1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45a-76

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No.: 10052419

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052419-051

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10052833.D

% Moisture: 10 Decanted: (Y/N) CLEAR Date Received: 05/24/2010

Extraction : (Type) SONC Date Extracted: 05/27/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/28/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82724

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

NW 10/10/10

SW8082

ENVIRONMENTAL
Data Services, Inc.

METALS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10052419

Client: ARGO Systems, Glen Burnie, MD Date: October 10, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1*	AOC-3-6/0-2	10052419-001	Soil
2*	AOC-3-9/0-2	10052419-002	Soil
3*	AOC-3-4/2-4	10052419-003	Soil
3MS*	AOC-3-4/2-4MS	10052419-003MS	Soil
3MSD*	AOC-3-4/2-4MSD	10052419-003MSD	Soil
4*	AOC-3-6/2-4	10052419-004	Soil
5*	AOC-3-9/2-4	10052419-005	Soil
6*	AOC-3-11/2-4	10052419-006	Soil
7*	AOC-3-16/2-4	10052419-007	Soil
8*	AOC-3-20/2-4	10052419-008	Soil
9*	AOC-3-21/2-4	10052419-009	Soil
10*	AOC-3-23/2-4	10052419-010	Soil
11*	AOC-3-25/2-4	10052419-011	Soil
12*	AOC-3-28/2-4	10052419-012	Soil
13*	AOC-3-29/2-4	10052419-013	Soil
14*	AOC-3-30/2-4	10052419-014	Soil
15*	AOC-3-34/2-4	10052419-015	Soil
16*	AOC-3-36/2-4	10052419-016	Soil
17*	AOC-3-38/2-4	10052419-017	Soil
18*	AOC-3-39/2-4	10052419-018	Soil
19*	AOC-3-40/2-4	10052419-019	Soil
20*	AOC-3-41/2-4	10052419-020	Soil
21*	AOC-3-42/2-4	10052419-021	Soil
22*	AOC-3-46/2-4	10052419-022	Soil
23*	AOC-3-48/2-4	10052419-023	Soil
24*	AOC-3-50/2-4	10052419-024	Soil
25*	AOC-3(GP02)-2/8-10	10052419-025	Soil
26*	AOC-3(GP07)-1/8-10	10052419-026	Soil
26MS*	AOC-3(GP07)-1/8-10MS	10052419-026MS	Soil
26MSD*	AOC-3(GP07)-1/8-10MSD	10052419-026MSD	Soil
27*	AOC-3(GP07)-2/8-10	10052419-027	Soil
28*	AOC-3(GP07)-3/8-10	10052419-028	Soil
29	AOC-3-29/0-2	10052419-029	Soil
30	AOC-3-13/2-4	10052419-030	Soil
31	AOC-3-18/2-4	10052419-031	Soil

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
32	AOC-3-37/2-4	10052419-032	Soil
33	AOC-3-49/2-4	10052419-033	Soil
34	AOC-3(GP02)-1/8-10	10052419-034	Soil
35	AOC-3(GP02)-3/8-10	10052419-035	Soil
36	AOC-3(GP02)-4/8-10	10052419-036	Soil
37	AOC-3(GP07)-4/10-12	10052419-037	Soil
38**	1A-55/2-4	10052419-038	Soil
39†	NR-51/2-4	10052419-039	Soil
40	1A-70/2-4	10052419-040	Soil
40MS	1A-70/2-4MS	10052419-040MS	Soil
40MSD	1A-70/2-4MSD	10052419-040MSD	Soil
41*	DUP-AOC-3-13	10052419-041	Soil
42*	DUP-AOC-3-14	10052419-042	Soil
43*	DUP-AOC-3-15	10052419-043	Soil
44†	DUP-08/2-4	10052419-044	Soil
45	DUP-09/2-4	10052419-045	Soil
46	DUP-AOC-3-12	10052419-046	Soil

* - Arsenic & Lead ** - Chromium & Mercury † - Arsenic & Nickel

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier	Affected Samples
26	Antimony	48%/46%/OK	L/UL	46
	Zinc	196%/181%/OK	K	
40	Chromium	128%/OK/OK	K	40, 45
	Lead	225%/84%/91	J/UJ	40-45
	Manganese	239%/279%/OK	K	40, 45
	Vanadium	137%/136%/OK	K	40, 45

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-50/2-4 mg/kg	DUP-AOC-3-13 mg/kg	RPD	Qualifier
Arsenic	3.6	3.4	6%	None
Lead	7.9	9.0	13%	None

Compound	AOC-3(GP07)-3/8-10 mg/kg	DUP-AOC-3-14 mg/kg	RPD	Qualifier
Arsenic	6.3	3.0	71%	None
Lead	16	8.7	59%	None

Compound	AOC-3-6/2-4 mg/kg	DUP-AOC-3-15 mg/kg	RPD	Qualifier
Arsenic	2.0	2.1	5%	None
Lead	6.2	6.7	8%	None

Compound	NR-51/2-4 mg/kg	DUP-08/2-4 mg/kg	RPD	Qualifier
Arsenic	2.6	2.1	21%	None
Nickel	19	18	5%	None

Compound	1A-70/2-4 mg/kg	DUP-09/2-4 mg/kg	RPD	Qualifier
Arsenic	5.7	8.5	39%	None
Chromium	15	24	46%	None
Lead	110	130	17%	None
Manganese	430	300	36%	None
Vanadium	28	48	53%	None

Compound	AOC-3-49/2-4 mg/kg	DUP-AOC-3-12 mg/kg	RPD	Qualifier
Arsenic	7.6	3.0	87%	None
Chromium	37	13	96%	None
Copper	9.8	3.1	104%	J
Lead	10	5.1	65%	None
Mercury	0.05	0.10 U	NC	None
Nickel	7.6	2.4	104%	J
Zinc	18	10 U	NC	None

Compound Quantitation - No discrepancies were identified.

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IA- IN
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EPA SAMPLE NO.

AOC-3-6/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-001

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 91 Batch #: 82734

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.7			MS
7439-92-1	Lead	7.4			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

LW 10/10/10

FORM IA - IN SW6020

2

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-3-9/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No.: 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-002

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 89 Batch #: 82734

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.1			MS
7439-92-1	Lead	6.3			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

mw 10/10/10

3

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-3-4/2-4 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-003

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 88 Batch #: 82734

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.5			MS
7439-92-1	Lead	9.3			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
10/10/10

FORM IA - IN SW6020

4

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-6/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-004

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 93 Batch #: 82734

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.0			MS
7439-92-1	Lead	6.2			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

fw 10/10/10

FORM IA - IN SW6020

5

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-3-9/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-005

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 95 Batch #: 82734

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.4			MS
7439-92-1	Lead	4.7			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
10/10/10

FORM IA - IN SW6020

6

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-3-11/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-006

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 89 Batch #: 82734

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.6			MS
7439-92-1	Lead	8.5			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

lw
10/10/10

FORM IA - IN SW6020

7

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-16/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-007

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 92 Batch #: 82734

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.7			MS
7439-92-1	Lead	6.5			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
10/10/10

8

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-3-20/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-008

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 89 Batch #: 82734

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.6			MS
7439-92-1	Lead	9.6			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

fw 10/10/10

FORM IA - IN SW6020

9

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-3-21/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-009

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 88 Batch #: 82734

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.3			MS
7439-92-1	Lead	8.9			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

AW 10/10/10

FORM IA - IN SW6020

10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-3-23/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-010

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 88 Batch #: 82734

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.6			MS
7439-92-1	Lead	6.0			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 10/10/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-3-25/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-011

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 95 Batch #: 82734

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.2			MS
7439-92-1	Lead	5.7			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

RW
10/10/10

FORM IA - IN SW6020

12

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-3-28/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-012

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 88 Batch #: 82734

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.6			MS
7439-92-1	Lead	13			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NEO
10/10/10

13

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-3-29/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-013

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 89 Batch #: 82734

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.2			MS
7439-92-1	Lead	16			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

KW
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-30/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-014

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 86 Batch #: 82734

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.8			MS
7439-92-1	Lead	15			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-34/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-015

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 86 Batch #: 82734

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.3			MS
7439-92-1	Lead	10			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-3-36/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-016

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 90 Batch #: 82741

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.1			MS
7439-92-1	Lead	11			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 10/10/10

17

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-38/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-017

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 90 Batch #: 82741

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.6			MS
7439-92-1	Lead	7.4			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
10/10/10

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USEPA - CLP
IA- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-39/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-018

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 86 Batch #: 82741

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	7.2			MS
7439-92-1	Lead	9.6			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-40/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-019

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 87 Batch #: 82741

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.9			MS
7439-92-1	Lead	11			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 10/10/10

20

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-3-41/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-020

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 88 Batch #: 82741

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	6.1			MS
7439-92-1	Lead	10			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-42/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No.: 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-021

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 88 Batch #: 82741

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	6.8			MS
7439-92-1	Lead	10			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

RW 10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-46/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-022

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 89 Batch #: 82741

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	7.4			MS
7439-92-1	Lead	8.9			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-48/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-023

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 90 Batch #: 82741

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.9			MS
7439-92-1	Lead	9.9			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-50/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No : 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-024

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 88 Batch #: 82741

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.6			MS
7439-92-1	Lead	7.9			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

AW

FORM IA - IN 10/10/10 SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3(GP02)-2/8-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-025

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 85 Batch #: 82741

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	6.0			MS
7439-92-1	Lead	13			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3(GP07)-1/8-10 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-026

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 74 Batch #: 82741

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.7			MS
7439-92-1	Lead	17			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3(GP07)-2/8-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-027

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 73 Batch #: 82741

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.3			MS
7439-92-1	Lead	14			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3(GP07)-3/8-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-028

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 72 Batch #: 82741

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	6.3			MS
7439-92-1	Lead	16			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-29/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-029

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 91 Batch #: 82741

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.2	U		MS
7440-38-2	Arsenic	3.5			MS
7440-41-7	Beryllium	2.2	U		MS
7440-43-9	Cadmium	2.2	U		MS
7440-47-3	Chromium	16			MS
7440-50-8	Copper	8.5			MS
7439-92-1	Lead	40			MS
7439-97-6	Mercury	0.09	U		MS
7440-02-0	Nickel	29			MS
7782-49-2	Selenium	2.2	U		MS
7440-22-4	Silver	2.2	U		MS
7440-28-0	Thallium	0.4	U		MS
7440-66-6	Zinc	95			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

30

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-3-13/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-030

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 94 Batch #: 82741

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	1.9	U		MS
7440-38-2	Arsenic	1.5			MS
7440-41-7	Beryllium	1.9	U		MS
7440-43-9	Cadmium	1.9	U		MS
7440-47-3	Chromium	9.6			MS
7440-50-8	Copper	2.2			MS
7439-92-1	Lead	4.4			MS
7439-97-6	Mercury	0.08	U		MS
7440-02-0	Nickel	1.4	J		MS
7782-49-2	Selenium	1.9	U		MS
7440-22-4	Silver	1.9	U		MS
7440-28-0	Thallium	0.4	U		MS
7440-66-6	Zinc	7.8	U		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-3-18/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No.: 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-031

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 95 Batch #: 82741

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.1	U		MS
7440-38-2	Arsenic	1.0			MS
7440-41-7	Beryllium	2.1	U		MS
7440-43-9	Cadmium	2.1	U		MS
7440-47-3	Chromium	5.8			MS
7440-50-8	Copper	1.5	J		MS
7439-92-1	Lead	3.5			MS
7439-97-6	Mercury	0.08	U		MS
7440-02-0	Nickel	1.2	J		MS
7782-49-2	Selenium	2.1	U		MS
7440-22-4	Silver	2.1	U		MS
7440-28-0	Thallium	0.4	U		MS
7440-66-6	Zinc	8.4	U		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-37/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-032

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 74 Batch #: 82741

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.7	U		MS
7440-38-2	Arsenic	14			MS
7440-41-7	Beryllium	2.7	U		MS
7440-43-9	Cadmium	2.7	U		MS
7440-47-3	Chromium	19			MS
7440-50-8	Copper	5.2			MS
7439-92-1	Lead	8.4			MS
7439-97-6	Mercury	0.11	U		MS
7440-02-0	Nickel	4.3			MS
7782-49-2	Selenium	2.7	U		MS
7440-22-4	Silver	2.7	U		MS
7440-28-0	Thallium	0.5	U		MS
7440-66-6	Zinc	10	J		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-49/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052419
Matrix (soil/water): SOIL Lab Sample ID: 10052419-033
Level (low/med): LOW Date Received: 05/24/2010
% Solids: 87 Batch #: 82741

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.5	U		MS	
7440-38-2	Arsenic	7.6			MS	
7440-41-7	Beryllium	2.5	U		MS	
7440-43-9	Cadmium	2.5	U		MS	
7440-47-3	Chromium	37			MS	
7440-50-8	Copper	9.8			MS	J
7439-92-1	Lead	10			MS	
7439-97-6	Mercury	0.05	J		MS	
7440-02-0	Nickel	7.6			MS	J
7782-49-2	Selenium	2.5	U		MS	
7440-22-4	Silver	2.5	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	18			MS	

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

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1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3(GP02)-1/8-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-034

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 82 Batch #: 82741

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.8	U		MS
7440-38-2	Arsenic	8.7			MS
7440-41-7	Beryllium	2.8	U		MS
7440-43-9	Cadmium	2.8	U		MS
7440-47-3	Chromium	40			MS
7440-50-8	Copper	11			MS
7439-92-1	Lead	14			MS
7439-97-6	Mercury	0.11	U		MS
7440-02-0	Nickel	13			MS
7782-49-2	Selenium	2.8	U		MS
7440-22-4	Silver	2.8	U		MS
7440-28-0	Thallium	0.6	U		MS
7440-66-6	Zinc	30			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3(GP02)-3/8-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-035

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 87 Batch #: 82741

Concentration Units (ug/L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.5	U		MS
7440-38-2	Arsenic	5.0			MS
7440-41-7	Beryllium	2.5	U		MS
7440-43-9	Cadmium	2.5	U		MS
7440-47-3	Chromium	22			MS
7440-50-8	Copper	7.9			MS
7439-92-1	Lead	10			MS
7439-97-6	Mercury	0.07	J		MS
7440-02-0	Nickel	6.8			MS
7782-49-2	Selenium	2.5	U		MS
7440-22-4	Silver	2.5	U		MS
7440-28-0	Thallium	0.5	U		MS
7440-66-6	Zinc	16			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3(GP02)-4/8-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052419
Matrix (soil/water): SOIL Lab Sample ID: 10052419-036
Level (low/med): LOW Date Received: 05/24/2010
% Solids: 88 Batch #: 82755

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.2	U	N	MS
7440-38-2	Arsenic	3.2			MS
7440-41-7	Beryllium	2.2	U		MS
7440-43-9	Cadmium	2.2	U		MS
7440-47-3	Chromium	23		N	MS
7440-50-8	Copper	7.7			MS
7439-92-1	Lead	10		N	MS
7439-97-6	Mercury	0.09	U		MS
7440-02-0	Nickel	36			MS
7782-49-2	Selenium	2.2	U		MS
7440-22-4	Silver	2.2	U		MS
7440-28-0	Thallium	0.4	U		MS
7440-66-6	Zinc	16		N	MS

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3(GP07)-4/10-12

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-037

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 78 Batch #: 82755

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.8	U	N	MS
7440-38-2	Arsenic	0.60			MS
7440-41-7	Beryllium	2.8	U		MS
7440-43-9	Cadmium	2.8	U		MS
7440-47-3	Chromium	2.5	J	N	MS
7440-50-8	Copper	5.6			MS
7439-92-1	Lead	3.2		N	MS
7439-97-6	Mercury	0.11	U		MS
7440-02-0	Nickel	2.1	J		MS
7782-49-2	Selenium	2.8	U		MS
7440-22-4	Silver	2.8	U		MS
7440-28-0	Thallium	0.6	U		MS
7440-66-6	Zinc	7.2	J	N	MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
1A-55/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-038

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 86 Batch #: 82755

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	5.0		N	MS
7439-97-6	Mercury	0.11	U		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
NR-51/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No : 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-039

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 80 Batch #: 82755

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.6			MS
7440-02-0	Nickel	19			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A-70/2-4 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-040

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 83 Batch #: 82755

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-38-2	Arsenic	5.7			MS	
7440-47-3	Chromium	15		~~N~~	MS	K
7439-92-1	Lead	110		~~N~~	MS	J
7439-96-5	Manganese	430		~~N~~	MS	K
7440-62-2	Vanadium	28		~~N~~	MS	K

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-AOC-3-13

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-041

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 87 Batch #: 82755

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4			MS
7439-92-1	Lead	9.0		~~N~~	MS J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

 MW 06/10/10 SW6020

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-3-14

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No.: 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-042

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 93 Batch #: 82755

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.0			MS
7439-92-1	Lead	8.7		~~N~~	MS J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 10/10/10

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-3-15

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No : 10052419
Matrix (soil/water): SOIL Lab Sample ID: 10052419-043
Level (low/med): LOW Date Received: 05/24/2010
% Solids: 90 Batch #: 82755

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.1			MS
7439-92-1	Lead	6.7		~~N~~	MS J

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

NW
FORM IA - IN 10/10/10 SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-08/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-044

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 80 Batch #: 82755

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.1			MS
7440-02-0	Nickel	18			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-09/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-045

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 83 Batch #: 82755

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-38-2	Arsenic	8.5			MS	
7440-47-3	Chromium	24		N	MS	K
7439-92-1	Lead	130		N	MS	J
7439-96-5	Manganese	300		N	MS	K
7440-62-2	Vanadium	48		N	MS	K

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN NW 10/10/10 SW6020

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-AOC-3-12

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052419

Matrix (soil/water): SOIL Lab Sample ID: 10052419-046

Level (low/med): LOW Date Received: 05/24/2010

% Solids: 87 Batch #: 82755

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.5	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	3.0			MS	
7440-41-7	Beryllium	2.5	U		MS	
7440-43-9	Cadmium	2.5	U		MS	
7440-47-3	Chromium	13		~~N~~	MS	K
7440-50-8	Copper	3.1			MS	J
7439-92-1	Lead	5.1		~~N~~	MS	J
7439-97-6	Mercury	0.10	U		MS	
7440-02-0	Nickel	2.4	~~U~~		MS	J
7782-49-2	Selenium	2.5	U		MS	
7440-22-4	Silver	2.5	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	10	U	~~N~~	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
10/10/10

ENVIRONMENTAL
Data Services, Inc.

VOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10052119

Client: EA Engineering, Science, and Technology, Sparks, MD Date: August 20, 2010

Laboratory: Maryland Spectral Services, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC6-13-SG	10052119-001	Air
2	AOC6-19-SG	10052119-002	Air
3	AOC6-23-SG	10052119-003	Air
4	AOC6-21-SG	10052119-005	Air
5	AOC6-11-SG	10052119-006	Air
6	AOC6-05-SG	10052119-007	Air
7	AOC6-07-SG	10052119-008	Air
8	AOC6-01-SG	10052119-009	Air
9	AOC6-17-SG	10052119-010	Air
10	AOC6-03B-SG	10052119-011	Air
11	AOC6-DUP-01-SG	10052119-013	Air
12	AOC6-FB	10052119-015	Air

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 30 days for air samples.

GC/MS Tuning - All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values except the following.

ICAL Date	Compound	%RSD/RRF	Qualifier	Affected Samples
05/25/10	1,2,4-Trichlorobenzene	55.91%	J/UJ	All Samples
	Hexachlorobutadiene	50.76%		

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
05/26/10	1,2,4-Trichlorobenzene	34.8%	None	See ICAL
	Naphthalene	37.1%	J/UJ	5, 7, 8
05/27/10	1,2,4-Trichlorobenzene	32.9%	None	See ICAL
	Hexachlorobutadiene	34.3%		
	Naphthalene	45.6%	J/UJ	1, 6, 9, 10, 11, 12

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Trip, Field, Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/m^3	Action Level ug/m^3	Qualifier	Affected Samples
AOC06-FB	None - ND	-	-	-	-

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC06-03B-SG ug/m^3	AOC-DUP-01-SG ug/m^3	RPD	Qualifier
Acetone	67.4	68.4	1%	None
Benzene	17.7	18.6	5%	None
Carbon Disulfide	120	123	2%	None
Chloroform	2.98	3.02	1%	None
Cyclohexane	4.98	5.14	3%	None
Ethyl Acetate	3.84	4.14	8%	None
Ethylbenzene	4.30	4.54	5%	None
4-Ethyltoluene	2.00	2.34	16%	None
Heptane	23.2	24.2	4%	None
Hexane	47.6	48.8	2%	None

Compound	AOC06-03B-SG ug/m^3	AOC-DUP-01-SG ug/m^3	RPD	Qualifier
Methyl Ethyl Ketone	15.2	15.5	2%	None
Propylene	354	364	3%	None
Styrene	2.06	2.12	3%	None
Tetrachloroethene	6.9	7.2	4%	None
Tetrahydrofuran	9.78	10.4	6%	None
Toluene	21.4	22.4	5%	None
1,2,4-Trimethylbenzene	11.6	12.1	4%	None
1,3,5-Trimethylbenzene	6.32	6.66	5%	None
o-Xylene	3.42	3.50	2%	None
m,p-Xylene	8.6	9.2	7%	None

Compound Quantitation - All samples were analyzed at various dilutions due to high concentrations of target analytes.

Several samples exhibited compounds with concentrations over the linear range of the instrument and flagged (E) by the laboratory. These results have been qualified as estimated (J).

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MARYLAND SPECTRAL SERVICES, INC.

1500 Caton Center Drive, Baltimore MD 21227

VOLATILE ORGANICS BY EPA GC/MS METHOD TO-15

	#1	#2	#3	#4	#5	#6
CLIENT SAMPLE ID:	AOC06-13-SG NTCB	AOC06-19-SG NTCB	AOC06-23-SG NTCB	AOC06-21-SG NTCB	AOC06-11-SG NTCB	AOC06-05-SG NTCB
LAB SAMPLE ID:	10052418D	10052419	10052420R	10052422R	10052423D	10052424
SAMPLE DATE:	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010
RECEIVED DATE:	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010
ANALYSIS DATE:	5/27/2010	5/25/2010	5/25/2010	5/25/2010	5/26/2010	5/27/2010
CANISTER ID:	003	007	038	032	037	004
REGULATOR ID:	D	T	P	H	C	O
FILE NAME:	10052418D	10052419	10052420R	10052422R	10052423D	10052424
INSTRUMENT ID:	MS-G	MS-G	MS-G	MS-G	MS-G	MS-G
MATRIX:	VAPOR	VAPOR	VAPOR	VAPOR	VAPOR	VAPOR
UNITS:	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³
DILUTION FACTOR:	2408	2.0	2.0	2.0	8.0	2.0
ANALYTE						
Acetone	2870 U	48.8	88.6	67.2	59.4	62.8
Benzene	1540 U	5.76	25.4	14.9	12.8	7.96
Benzyl Chloride	2480 U	2.1 U	2.1 U	2.1 U	8.2 U	2.1 U
Bromodichloromethane	3230 U	2.7 U	2.7 U	2.7 U	11 U	2.7 U
Bromoform	4980 U	4.1 U	4.1 U	4.1 U	17 U	4.1 U
Bromomethane	1880 U	1.6 U	1.6 U	1.6 U	6.2 U	1.6 U
1,3-Butadiene	1060 U	0.88 U	0.88 U	0.88 U	3.5 U	0.88 U
Carbon Disulfide	1490 U	65.4	8.02	36.4	5.92	4.58
Carbon Tetrachloride	3030 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U
Chlorobenzene	2220 U	1.8 U	1.8 U	1.8 U	7.4 U	1.8 U
Chloroethane	1280 U	1.1 U	1.1 U	1.1 U	4.2 U	1.1 U
Chloroform	2340 U	1.9 U	1.9 U	1.9 U	7.8 U	9.96
Chloromethane	987 U	0.82 U	0.82 U	0.82 U	3.3 U	0.82 U
3-Chloropropene	1520 U	1.3 U	1.3 U	1.3 U	5.0 U	1.3 U
Cyclohexane	2670	3.90	9.36	27.2	13.4	2.60
Dibromochloromethane	3230 U	2.7 U	2.7 U	2.7 U	11 U	2.7 U
1,2-Dibromoethane	3270 U	2.7 U	2.7 U	2.7 U	11 U	2.7 U
m-Dichlorobenzene	2890 U	2.4 U	2.4 U	2.4 U	9.6 U	2.4 U
o-Dichlorobenzene	2890 U	2.4 U	2.4 U	2.4 U	9.6 U	2.4 U
p-Dichlorobenzene	2890 U	2.4 U	2.4 U	2.4 U	9.6 U	2.4 U
Dichlorodifluoromethane	2380 U	2.0 U	2.0 U	2.0 U	7.9 U	2.0 U
1,1-Dichloroethane	1950 U	1.6 U	1.6 U	1.6 U	6.5 U	1.6 U
1,2-Dichloroethane	1950 U	1.6 U	1.6 U	1.6 U	6.5 U	1.6 U
1,1-Dichloroethene	1900 U	1.6 U	1.6 U	1.6 U	6.3 U	1.6 U
cis-1,2-Dichloroethene	131000	1.6 U	1.6 U	1.6 U	85.6	1.6 U
trans-1,2-Dichloroethene	2870	1.6 U	1.6 U	1.6 U	6.3 U	1.6 U
1,2-Dichloropropane	2220 U	1.8 U	1.8 U	1.8 U	7.4 U	1.8 U
cis-1,3-Dichloropropene	2190 U	1.8 U	1.8 U	1.8 U	7.3 U	1.8 U
trans-1,3-Dichloropropene	2190 U	1.8 U	1.8 U	1.8 U	7.3 U	1.8 U
1,4-Dioxane	1730 U	1.4 U	1.4 U	1.4 U	5.8 U	1.4 U
Ethyl Acetate	1730 U	3.66	3.40	4.28	5.8 U	4.64
Ethylbenzene	8600	2.52	11.2	12.6	47.7	3.24
4-Ethyltoluene	19700	2.0 U	2.0 U	2.0 U	60.2	2.0 U
Freon 113	3680 U	3.1 U	3.1 U	3.1 U	12 U	3.1 U
Freon 114	3370 U	2.8 U	2.8 U	2.8 U	11 U	2.8 U
Heptane	2990	11.1	37.8	124	37.2	7.92

ug/m³ - micrograms per cubic meter U - Less than reported quantitation limit J - Estimated value
B - Detected in lab blank E - Exceeded calibration range

LW 8/20/10

1-6

MARYLAND SPECTRAL SERVICES, INC.

1500 Caton Center Drive, Baltimore MD 21227

VOLATILE ORGANICS BY EPA GC/MS METHOD TO-15

	#1	#2	#3	#4	#5	#6
CLIENT SAMPLE ID:	AOC06-13-SG NTCB	AOC06-19-SG NTCB	AOC06-23-SG NTCB	AOC06-21-SG NTCB	AOC06-11-SG NTCB	AOC06-05-SG NTCB
LAB SAMPLE ID:	10052418D	10052419	10052420R	10052422R	10052423D	10052424
SAMPLE DATE:	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010
RECEIVED DATE:	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010
ANALYSIS DATE:	5/27/2010	5/25/2010	5/25/2010	5/25/2010	5/26/2010	5/27/2010
CANISTER ID:	003	007	038	032	037	004
REGULATOR ID:	D	T	P	H	C	O
FILE NAME:	10052418D	10052419	10052420R	10052422R	10052423D	10052424
INSTRUMENT ID:	MS-G	MS-G	MS-G	MS-G	MS-G	MS-G
MATRIX:	VAPOR	VAPOR	VAPOR	VAPOR	VAPOR	VAPOR
UNITS:	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³
DILUTION FACTOR:	2408	2.0	2.0	2.0	8.0	2.0
ANALYTE						
Hexachlorobutadiene	5130 ~~U~~ UJ	4.3 ~~U~~ UJ	4.3 ~~U~~ UJ	4.3 ~~U~~ UJ	17 ~~U~~ UJ	4.3 ~~U~~ UJ
Hexane	4240 U	23.0	52.8	139	67.0	34.2
2-Hexanone	1970 U	1.6 U	1.6 U	1.6 U	6.6 U	1.6 U
Methyl tert-Butyl Ether	1730 U	1.4 U	1.4 U	1.4 U	5.8 U	1.4 U
Methylene Chloride	12500 U	10 U	10 U	10 U	42 U	28.6
Methyl Ethyl Ketone	1420 U	10.8	31.8	16.7	10.3	12.8
Methyl Isobutyl Ketone	1970 U	1.6 U	4.92	3.04	6.6 U	1.6 U
Naphthalene	2530 ~~U~~ UJ	2.1 U	3.1	5.4	8.4 ~~U~~ UJ	2.1 ~~U~~ UJ
Propylene	1760	434 ~~E~~ J	0.68 U	414 ~~E~~ J	904 ~~E~~ J	218 ~~E~~ J
Styrene	2050 U	1.7 U	5.12	4.82	6.8 U	1.98
1,1,2,2-Tetrachloroethane	3300 U	2.7 U	2.7 U	2.7 U	11 U	2.7 U
Tetrachloroethene	3270 U	11.2	42.4	60.2	100	36.2
Tetrahydrofuran	1420 U	3.96	13.0	16.4	4.7 U	13.5
Toluene	1810 U	9.18	33.4	28.6	18.6	11.6
1,2,4-Trichlorobenzene	3560 ~~U~~ UJ	3.0 ~~U~~ UJ	3.0 ~~U~~ UJ	3.0 ~~U~~ UJ	12 ~~U~~ UJ	3.0 ~~U~~ UJ
1,1,1-Trichloroethane	2620 U	2.2 U	2.2 U	2.2 U	8.7 U	2.2 U
1,1,2-Trichloroethane	2620 U	2.2 U	2.2 U	2.2 U	8.7 U	2.2 U
Trichloroethene	2580 U	2.1 U	2.1 U	2.1 U	31.4	7.2
Trichlorofluoromethane	2700 U	2.2 U	2.2 U	2.2 U	9.0 U	2.2 U
1,2,4-Trimethylbenzene	82400	2.88	15.6	13.5	7.8 U	4.46
1,3,5-Trimethylbenzene	47900	2.0 U	5.48	5.56	7.8 U	2.0 U
2,2,4-Trimethylpentane	2240 U	1.9 U	1.9 U	1.9 U	7.4 U	1.9 U
Vinyl Acetate	1690 U	1.4 U	1.4 U	1.4 U	5.6 U	1.4 U
Vinyl Bromide	2090 U	1.7 U	1.7 U	1.7 U	7.0 U	1.7 U
Vinyl Chloride	1230	1.0 U	1.0 U	1.0 U	4.1 U	1.0 U
o-Xylene	2090 U	2.20	8.92	10.1	54.3	2.70
m-&p-Xylenes	20000	5.9	27.0	35.4	42.0	7.6

ug/m³ - micrograms per cubic meter U - Less than reported quantitation limit J - Estimated value
B - Detected in lab blank E - Exceeded calibration range

MW 8/20/10

7-12

MARYLAND SPECTRAL SERVICES, INC.

1500 Caton Center Drive, Baltimore MD 21227

VOLATILE ORGANICS BY EPA GC/MS METHOD TO-15

	#7	#8	#9	#10	#11	#12
CLIENT SAMPLE ID:	AOC06-07-SG	AOC06-01-SG	AOC06-17-SG	AOC06-03B-SG	AOC6-DUP-1-SG	AOC6-FB
	NTCB	NTCB	NTCB	NTCB	NTCB	NTCB
LAB SAMPLE ID:	10052425	10052426D	10052427D	10052428	10052430	10052432
SAMPLE DATE:	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010
RECEIVED DATE:	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010
ANALYSIS DATE:	5/26/2010	5/26/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010
CANISTER ID:	009	011	031	008	036	034
REGULATOR ID:	I	K	J	Q	Q	NONE
FILE NAME:	10052425	10052426D	10052427D	10052428	10052430	10052432
INSTRUMENT ID:	MS-G	MS-G	MS-G	MS-G	MS-G	MS-G
MATRIX:	VAPOR	VAPOR	VAPOR	VAPOR	VAPOR	VAPOR
UNITS:	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³
DILUTION FACTOR:	2.0	40	20	2.0	2.0	1.0
ANALYTE						
Acetone	73.4	91.2	122	67.4	68.4	1.2 U
Benzene	37.4	26.4	25.0	17.7	18.6	0.64 U
Benzyl Chloride	2.1 U	41 U	21 U	2.1 U	2.1 U	1.0 U
Bromodichloromethane	2.7 U	54 U	27 U	2.7 U	2.7 U	1.3 U
Bromoform	4.1 U	83 U	41 U	4.1 U	4.1 U	2.1 U
Bromomethane	1.6 U	31 U	16 U	1.6 U	1.6 U	0.78 U
1,3-Butadiene	0.88 U	18 U	8.8 U	0.88 U	0.88 U	0.44 U
Carbon Disulfide	20.4	624	86.2	120	123	0.62 U
Carbon Tetrachloride	2.5 U	50 U	25 U	2.5 U	2.5 U	1.3 U
Chlorobenzene	1.8 U	37 U	18 U	1.8 U	1.8 U	0.92 U
Chloroethane	1.1 U	21 U	11 U	1.1 U	1.1 U	0.53 U
Chloroform	4.22	39 U	19 U	2.98	3.02	0.97 U
Chloromethane	0.82 U	16 U	8.2 U	0.82 U	0.82 U	0.41 U
3-Chloropropene	1.3 U	25 U	13 U	1.3 U	1.3 U	0.63 U
Cyclohexane	41.6	43.2	15.6	4.98	5.14	0.69 U
Dibromochloromethane	2.7 U	54 U	27 U	2.7 U	2.7 U	1.3 U
1,2-Dibromoethane	2.7 U	54 U	27 U	2.7 U	2.7 U	1.4 U
m-Dichlorobenzene	2.4 U	48 U	24 U	2.4 U	2.4 U	1.2 U
o-Dichlorobenzene	2.4 U	48 U	24 U	2.4 U	2.4 U	1.2 U
p-Dichlorobenzene	2.4 U	48 U	24 U	2.4 U	2.4 U	1.2 U
Dichlorodifluoromethane	2.0 U	40 U	20 U	2.0 U	2.0 U	0.99 U
1,1-Dichloroethane	1.6 U	32 U	16 U	1.6 U	1.6 U	0.81 U
1,2-Dichloroethane	1.6 U	32 U	16 U	1.6 U	1.6 U	0.81 U
1,1-Dichloroethene	1.6 U	32 U	16 U	1.6 U	1.6 U	0.79 U
cis-1,2-Dichloroethene	1.6 U	32 U	16 U	1.6 U	1.6 U	0.79 U
trans-1,2-Dichloroethene	1.6 U	32 U	16 U	1.6 U	1.6 U	0.79 U
1,2-Dichloropropane	1.8 U	37 U	18 U	1.8 U	1.8 U	0.92 U
cis-1,3-Dichloropropene	1.8 U	36 U	18 U	1.8 U	1.8 U	0.91 U
trans-1,3-Dichloropropene	1.8 U	36 U	18 U	1.8 U	1.8 U	0.91 U
1,4-Dioxane	1.4 U	29 U	14 U	1.4 U	1.4 U	0.72 U
Ethyl Acetate	6.18	29 U	14 U	3.84	4.14	0.72 U
Ethylbenzene	14.1	35 U	17 U	4.30	4.54	0.87 U
4-Ethyltoluene	2.0 U	39 U	20 U	2.00	2.34	0.98 U
Freon 113	3.1 U	61 U	31 U	3.1 U	3.1 U	1.5 U
Freon 114	2.8 U	56 U	28 U	2.8 U	2.8 U	1.4 U
Heptane	120	170	70.2	23.2	24.2	0.82 U

ug/m³ - micrograms per cubic meter U - Less than reported quantitation limit J - Estimated value
B - Detected in lab blank E - Exceeded calibration range

MW 8/20/10

1-12

MARYLAND SPECTRAL SERVICES, INC.

1500 Caton Center Drive, Baltimore MD 21227

VOLATILE ORGANICS BY EPA GC/MS METHOD TO-15

	#7	#8	#9	#10	#11	#12
CLIENT SAMPLE ID:	AOC06-07-SG	AOC06-01-SG	AOC06-17-SG	AOC06-03B-SG	AOC6-DUP-1-SG	AOC6-FB
	NTCB	NTCB	NTCB	NTCB	NTCB	NTCB
LAB SAMPLE ID:	10052425	10052426D	10052427D	10052428	10052430	10052432
SAMPLE DATE:	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010
RECEIVED DATE:	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010
ANALYSIS DATE:	5/26/2010	5/26/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010
CANISTER ID:	009	011	031	008	036	034
REGULATOR ID:	I	K	J	Q	Q	NONE
FILE NAME:	10052425	10052426D	10052427D	10052428	10052430	10052432
INSTRUMENT ID:	MS-G	MS-G	MS-G	MS-G	MS-G	MS-G
MATRIX:	VAPOR	VAPOR	VAPOR	VAPOR	VAPOR	VAPOR
UNITS:	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³
DILUTION FACTOR:	2.0	40	20	2.0	2.0	1.0
ANALYTE						
Hexachlorobutadiene	4.3 ~~U~~ UJ	85 ~~U~~ UJ	43 ~~U~~ UJ	4.3 ~~U~~ UJ	4.3 ~~U~~ UJ	2.1 ~~U~~ UJ
Hexane	190 ~~E~~ J	352	146	47.6	48.8	1.8 U
2-Hexanone	1.6 U	33 U	16 U	1.6 U	1.6 U	0.82 U
Methyl tert-Butyl Ether	1.4 U	29 U	14 U	1.4 U	1.4 U	0.72 U
Methylene Chloride	19.1	208 U	104 U	10 U	10 U	5.2 U
Methyl Ethyl Ketone	15.7	24 U	19.8	15.2	15.5	0.59 U
Methyl Isobutyl Ketone	1.6 U	33 U	16 U	1.6 U	1.6 U	0.82 U
Naphthalene	3.6 J	42 ~~U~~ UJ	21 ~~U~~ UJ	2.1 ~~U~~ UJ	2.1 ~~U~~ UJ	1.1 ~~U~~ UJ
Propylene	1710 ~~E~~ J	1010	2860 ~~E~~ J	354 ~~E~~ J	364 ~~E~~ J	0.34 U
Styrene	5.04	34 U	17 U	2.06	2.12	0.85 U
1,1,2,2-Tetrachloroethane	2.7 U	55 U	27 U	2.7 U	2.7 U	1.4 U
Tetrachloroethene	65.4	54 U	27 U	6.9	7.2	1.4 U
Tetrahydrofuran	13.7	24 U	13.4	9.78	10.4	0.59 U
Toluene	49.0	34.8	33.4	21.4	22.4	0.75 U
1,2,4-Trichlorobenzene	3.0 ~~U~~ UJ	59 ~~U~~ UJ	30 ~~U~~ UJ	3.0 ~~U~~ UJ	3.0 ~~U~~ UJ	1.5 ~~U~~ UJ
1,1,1-Trichloroethane	2.2 U	44 U	22 U	2.2 U	2.2 U	1.1 U
1,1,2-Trichloroethane	2.2 U	44 U	22 U	2.2 U	2.2 U	1.1 U
Trichloroethene	2.1 U	43 U	21 U	2.1 U	2.1 U	1.1 U
Trichlorofluoromethane	2.2 U	45 U	22 U	2.2 U	2.2 U	1.1 U
1,2,4-Trimethylbenzene	14.9	68.0	20 U	11.6	12.1	0.98 U
1,3,5-Trimethylbenzene	5.84	106	20 U	6.32	6.66	0.98 U
2,2,4-Trimethylpentane	2.96	37 U	19 U	1.9 U	1.9 U	0.93 U
Vinyl Acetate	1.4 U	28 U	14 U	1.4 U	1.4 U	0.70 U
Vinyl Bromide	1.7 U	35 U	17 U	1.7 U	1.7 U	0.87 U
Vinyl Chloride	3.32	20 U	10 U	1.0 U	1.0 U	0.51 U
o-Xylene	10.4	35 U	17 U	3.42	3.50	0.87 U
m-&p-Xylenes	36.2	70 U	35 U	8.6	9.2	1.7 U

ug/m³ - micrograms per cubic meter U - Less than reported quantitation limit J - Estimated value
B - Detected in lab blank E - Exceeded calibration range

WW 8/20/10

ENVIRONMENTAL
Data Services, Inc.

VOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10052118

Client: ARGO Systems, Glen Burnie, MD Date: October 10, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-28-SW-SW	10052118-001	Water
1MS	AOC-28-SW-SWMS	10052118-001MS	Water
1MSD	AOC-28-SW-SWMSD	10052118-001MSD	Water
2	AOC-28-SW-NW	10052118-002	Water
3	AOC-28-SW-SE	10052118-003	Water
4	DUP-AOC-28-SW-01	10052118-004	Water
5	DUP-SED-01	10052118-005	Soil
6	AOC-28-SED-SW	10052118-006	Soil
6MS	AOC-28-SED-SWMS	10052118-006MS	Soil
6MSD	AOC-28-SED-SWMSD	10052118-006MSD	Soil
7	AOC-28-SED-SE	10052118-007	Soil
8	AOC-28-SED-NW	10052118-008	Soil
9	AOC-28-SW-NE	10052118-020	Water
10	AOC-28-SED-NE	10052118-041	Soil
11	EB-11	10052118-042	Water
12	TB-01	10052118-044	Water

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for preserved water and soil samples.

GC/MS Tuning - All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values except the following.

ICAL Date	Compound	%RSD/RRF	Qualifier	Affected Samples
05/17/10	Acetone	0.020 RRF	L/R	1-4, 9, 11, 12
	2-Butanone	0.022 RRF	L/R	
	4-Methyl-2-pentanone	0.023 RRF	L/R	
05/24/10	4-Methyl-2-pentanone	0.045 RRF	L/R	5-8, 10

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
05/24/10 (1040)	Acetone	80.0%/0.036 RRF	None	See ICAL
	2-Butanone	50.0%/0.033 RRF	None	See ICAL
	Carbon disulfide	36.1%	None	All ND
	4-Methyl-2-pentanone	26.1%/0.029 RRF	None	See ICAL
	1,2-Dibromo-3-Chloropropane	33.7%	None	All ND
05/28/10 (0846)	2-Butanone	0.048 RRF	None	See ICAL
	4-Methyl-2-pentanone	0.043 RRF	None	See ICAL
	1,1,2,2-Tetrachloroethane	26.0%	None	All ND

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD samples exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values except the following.

LCS ID	Compound	%R	Qualifier	Affected Samples
32980-1-BKS	Chlorobenzene	80%	L/UL	1-4, 9, 11, 12

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Trip, Field, Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level ug/L	Qualifier	Affected Samples
EB-11	None- ND	-	-	-	-
TB-01	None- ND	-	-	-	-

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-28-SW-NW ug/L	DUP-AOC-28-SW-01 ug/L	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-28-SED-NW ug/kg	DUP-SED-01 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Tentatively Identified Compounds (TICs) - TICs were not reported with this data package.

Compound Quantitation - No discrepancies were identified.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-SW-SW MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82605 Mod. Ref. No.: _____ SDG No.: 10052118

Matrix: (SOIL/SED/WATER) SURFACE WATER Lab Sample ID: 10052118-001

Sample wt/vol 5.00 (g/mL) ml Lab File ID: 10052414

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec. _____ Date Analyzed: 05/24/2010

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/L	Q	
74-87-3	Chloromethane	1	U	
75-01-4	Vinyl Chloride	1	U	
74-83-9	Bromomethane	1	U	
75-00-3	Chloroethane	1	U	
67-64-1	Acetone	10	~~U~~	R
75-35-4	1,1-Dichloroethene	1	U	
75-09-2	Methylene Chloride	1	U	
156-60-5	trans-1,2-Dichloroethene	1	U	
1634-04-4	Methyl-t-butyl ether	1	U	
75-34-3	1,1-Dichloroethane	1	U	
78-93-3	2-Butanone	10	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	1	U	
67-66-3	Chloroform	1	U	
71-55-6	1,1,1-Trichloroethane	1	U	
107-06-2	1,2-Dichloroethane	1	U	
56-23-5	Carbon Tetrachloride	1	U	
71-43-2	Benzene	1	U	
78-87-5	1,2-Dichloropropane	1	U	
79-01-6	Trichloroethene	1	U	
75-15-0	Carbon Disulfide	10	U	
75-27-4	Bromodichloromethane	1	U	
10061-01-5	cis-1,3-Dichloropropene	1	U	
108-10-1	4-Methyl-2-Pentanone	5	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	1	U	
79-00-5	1,1,2-Trichloroethane	1	U	
108-88-3	Toluene	1	U	

LW 10/10/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SW-SW MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82605 Mod. Ref. No.: _____ SDG No : 10052118

Matrix: (SOIL/SED/WATER) SURFACE WATER Lab Sample ID: 10052118-001

Sample wt/vol 5.00 (g/mL) ml Lab File ID: 10052414

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec. _____ Date Analyzed: 05/24/2010

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/L	Q
106-93-4	1,2-Dibromoethane	1	U
124-48-1	Dibromochloromethane	1	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	1	U
108-90-7	Chlorobenzene	1	~~U~~ UL
100-41-4	Ethylbenzene	1	U
108-38-3	m,p-Xylenes	2	U
100-42-5	Styrene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
95-47-6	o-Xylene	1	U
98-82-8	Isopropylbenzene	1	U
103-65-1	n-Propylbenzene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
104-51-8	n-Butylbenzene	1	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U

NW 10/10/10

2

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SW-NW

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82605 Mod Ref. No.: _____ SDG No: 10052118

Matrix: (SOIL/SED/WATER) SURFACE WATER Lab Sample ID: 10052118-002

Sample wt/vol 5.00 (g/mL) ml Lab File ID: 10052415

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec. _____ Date Analyzed: 05/24/2010

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/L	Q	
74-87-3	Chloromethane	1	U	
75-01-4	Vinyl Chloride	1	U	
74-83-9	Bromomethane	1	U	
75-00-3	Chloroethane	1	U	
67-64-1	Acetone	10	~~U~~	R
75-35-4	1,1-Dichloroethene	1	U	
75-09-2	Methylene Chloride	1	U	
156-60-5	trans-1,2-Dichloroethene	1	U	
1634-04-4	Methyl-t-butyl ether	1	U	
75-34-3	1,1-Dichloroethane	1	U	
78-93-3	2-Butanone	10	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	1	U	
67-66-3	Chloroform	1	U	
71-55-6	1,1,1-Trichloroethane	1	U	
107-06-2	1,2-Dichloroethane	1	U	
56-23-5	Carbon Tetrachloride	1	U	
71-43-2	Benzene	1	U	
78-87-5	1,2-Dichloropropane	1	U	
79-01-6	Trichloroethene	1	U	
75-15-0	Carbon Disulfide	10	U	
75-27-4	Bromodichloromethane	1	U	
10061-01-5	cis-1,3-Dichloropropene	1	U	
108-10-1	4-Methyl-2-Pentanone	5	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	1	U	
79-00-5	1,1,2-Trichloroethane	1	U	
108-88-3	Toluene	1	U	

MW 10/10/10

SW8260B

2

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SW-NW

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82605 Mod. Ref. No.: _____ SDG No: 10052118

Matrix: (SOIL/SED/WATER) SURFACE WATER Lab Sample ID: 10052118-002

Sample wt/vol 5.00 (g/mL) ml Lab File ID: 10052415

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec _____ Date Analyzed: 05/24/2010

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/L	Q
106-93-4	1,2-Dibromoethane	1	U
124-48-1	Dibromochloromethane	1	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	1	U
108-90-7	Chlorobenzene	1	~~U~~ UL
100-41-4	Ethylbenzene	1	U
108-38-3	m,p-Xylenes	2	U
100-42-5	Styrene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
95-47-6	o-Xylene	1	U
98-82-8	Isopropylbenzene	1	U
103-65-1	n-Propylbenzene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
104-51-8	n-Butylbenzene	1	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U

NW 10/10/10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO
AOC-28-SW-SE

3

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82605 Mod Ref No.: _____ SDG No : 10052118

Matrix: (SOIL/SED/WATER) SURFACE WATER Lab Sample ID: 10052118-003

Sample wt/vol 5.00 (g/mL) ml Lab File ID: 10052416

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec _____ Date Analyzed: 05/24/2010

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/L	Q	
74-87-3	Chloromethane	1	U	
75-01-4	Vinyl Chloride	1	U	
74-83-9	Bromomethane	1	U	
75-00-3	Chloroethane	1	U	
67-64-1	Acetone	10	~~U~~	R
75-35-4	1,1-Dichloroethene	1	U	
75-09-2	Methylene Chloride	1	U	
156-60-5	trans-1,2-Dichloroethene	1	U	
1634-04-4	Methyl-t-butyl ether	1	U	
75-34-3	1,1-Dichloroethane	1	U	
78-93-3	2-Butanone	10	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	1	U	
67-66-3	Chloroform	1	U	
71-55-6	1,1,1-Trichloroethane	1	U	
107-06-2	1,2-Dichloroethane	1	U	
56-23-5	Carbon Tetrachloride	1	U	
71-43-2	Benzene	1	U	
78-87-5	1,2-Dichloropropane	1	U	
79-01-6	Trichloroethene	1	U	
75-15-0	Carbon Disulfide	10	U	
75-27-4	Bromodichloromethane	1	U	
10061-01-5	cis-1,3-Dichloropropene	1	U	
108-10-1	4-Methyl-2-Pentanone	5	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	1	U	
79-00-5	1,1,2-Trichloroethane	1	U	
108-88-3	Toluene	1	U	

KW 10/10/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SW-SE

3

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82605 Mod. Ref No : _____ SDG No : 10052118

Matrix: (SOIL/SED/WATER) SURFACE WATER Lab Sample ID: 10052118-003

Sample wt/vol 5.00 (g/mL) ml Lab File ID: 10052416

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec. _____ Date Analyzed: 05/24/2010

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/L	Q
106-93-4	1,2-Dibromoethane	1	U
124-48-1	Dibromochloromethane	1	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	1	U
108-90-7	Chlorobenzene	1	~~U~~ UL
100-41-4	Ethylbenzene	1	U
108-38-3	m,p-Xylenes	2	U
100-42-5	Styrene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
95-47-6	o-Xylene	1	U
98-82-8	Isopropylbenzene	1	U
103-65-1	n-Propylbenzene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
104-51-8	n-Butylbenzene	1	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U

KW 10/10/10

4

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-28-SW-01

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82605 Mod. Ref No.: _____ SDG No.: 10052118

Matrix: (SOIL/SED/WATER) SURFACE WATER Lab Sample ID: 10052118-004

Sample wt/vol 5.00 (g/mL) ml Lab File ID: 10052417

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec _____ Date Analyzed: 05/24/2010

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/L	Q	
74-87-3	Chloromethane	1	U	
75-01-4	Vinyl Chloride	1	U	
74-83-9	Bromomethane	1	U	
75-00-3	Chloroethane	1	U	
67-64-1	Acetone	10	~~U~~	R
75-35-4	1,1-Dichloroethene	1	U	
75-09-2	Methylene Chloride	1	U	
156-60-5	trans-1,2-Dichloroethene	1	U	
1634-04-4	Methyl-t-butyl ether	1	U	
75-34-3	1,1-Dichloroethane	1	U	
78-93-3	2-Butanone	10	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	1	U	
67-66-3	Chloroform	1	U	
71-55-6	1,1,1-Trichloroethane	1	U	
107-06-2	1,2-Dichloroethane	1	U	
56-23-5	Carbon Tetrachloride	1	U	
71-43-2	Benzene	1	U	
78-87-5	1,2-Dichloropropane	1	U	
79-01-6	Trichloroethene	1	U	
75-15-0	Carbon Disulfide	10	U	
75-27-4	Bromodichloromethane	1	U	
10061-01-5	cis-1,3-Dichloropropene	1	U	
108-10-1	4-Methyl-2-Pentanone	5	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	1	U	
79-00-5	1,1,2-Trichloroethane	1	U	
108-88-3	Toluene	1	U	

MW 10/10/10

SW8260B

4

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-28-SW-01

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82605 Mod Ref No : _____ SDG No : 10052118

Matrix: (SOIL/SED/WATER) SURFACE WATER Lab Sample ID: 10052118-004

Sample wt/vol 5.00 (g/mL) ml Lab File ID: 10052417

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec. _____ Date Analyzed: 05/24/2010

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/L	Q
106-93-4	1,2-Dibromoethane	1	U
124-48-1	Dibromochloromethane	1	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	1	U
108-90-7	Chlorobenzene	1	~~U~~ UL
100-41-4	Ethylbenzene	1	U
108-38-3	m,p-Xylenes	2	U
100-42-5	Styrene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
95-47-6	o-Xylene	1	U
98-82-8	Isopropylbenzene	1	U
103-65-1	n-Propylbenzene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
104-51-8	n-Butylbenzene	1	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U

MW 10/10/10

SW8260B

5

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-SED-01

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82718 Mod Ref No: _____ SDG No.: 10052118

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052118-005

Sample wt/vol 5.13 (g/mL) g Lab File ID: 10052806

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec. 38 Date Analyzed: 05/28/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	8	U	
75-01-4	Vinyl Chloride	8	U	
74-83-9	Bromomethane	8	U	
75-00-3	Chloroethane	8	U	
67-64-1	Acetone	31	U	
75-35-4	1,1-Dichloroethene	8	U	
75-09-2	Methylene Chloride	8	U	
156-60-5	trans-1,2-Dichloroethene	8	U	
1634-04-4	Methyl-t-butyl ether	8	U	
75-34-3	1,1-Dichloroethane	8	U	
78-93-3	2-Butanone	31	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	8	U	
67-66-3	Chloroform	8	U	
71-55-6	1,1,1-Trichloroethane	8	U	
107-06-2	1,2-Dichloroethane	8	U	
56-23-5	Carbon Tetrachloride	8	U	
71-43-2	Benzene	8	U	
78-87-5	1,2-Dichloropropane	8	U	
75-15-0	Carbon Disulfide	16	U	
79-01-6	Trichloroethene	8	U	
75-27-4	Bromodichloromethane	8	U	
10061-01-5	cis-1,3-Dichloropropene	8	U	
108-10-1	4-Methyl-2-Pentanone	31	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	8	U	
79-00-5	1,1,2-Trichloroethane	8	U	
108-88-3	Toluene	8	U	

NW 10/10/10

SW8260B

5

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-SED-01

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82718 Mod. Ref No : _____ SDG No : 10052118

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052118-005

Sample wt/vol 5.13 (g/mL) g Lab File ID: 10052806

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec. 38 Date Analyzed: 05/28/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	8	U
124-48-1	Dibromochloromethane	8	U
75-25-2	Bromoform	8	U
127-18-4	Tetrachloroethene	8	U
108-90-7	Chlorobenzene	8	U
100-41-4	Ethylbenzene	8	U
108-38-3	m,p-Xylenes	16	U
100-42-5	Styrene	8	U
79-34-5	1,1,2,2-Tetrachloroethane	8	U
95-47-6	o-Xylene	8	U
98-82-8	Isopropylbenzene	8	U
103-65-1	n-Propylbenzene	8	U
108-67-8	1,3,5-Trimethylbenzene	8	U
95-63-6	1,2,4-Trimethylbenzene	8	U
104-51-8	n-Butylbenzene	8	U
96-12-8	1,2-Dibromo-3-Chloropropane	63	U

KW 10/10/10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SED-SW MS/MSD

6

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82718 Mod. Ref. No.: _____ SDG No.: 10052118

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052118-006

Sample wt/vol 5.02 (g/mL) g Lab File ID: 10052807

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec. 18 Date Analyzed: 05/28/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	6	U	
75-01-4	Vinyl Chloride	6	U	
74-83-9	Bromomethane	6	U	
75-00-3	Chloroethane	6	U	
67-64-1	Acetone	24	U	
75-35-4	1,1-Dichloroethene	6	U	
75-09-2	Methylene Chloride	6	U	
156-60-5	trans-1,2-Dichloroethene	6	U	
1634-04-4	Methyl-t-butyl ether	6	U	
75-34-3	1,1-Dichloroethane	6	U	
78-93-3	2-Butanone	24	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	6	U	
67-66-3	Chloroform	6	U	
71-55-6	1,1,1-Trichloroethane	6	U	
107-06-2	1,2-Dichloroethane	6	U	
56-23-5	Carbon Tetrachloride	6	U	
71-43-2	Benzene	6	U	
78-87-5	1,2-Dichloropropane	6	U	
75-15-0	Carbon Disulfide	12	U	
79-01-6	Trichloroethene	6	U	
75-27-4	Bromodichloromethane	6	U	
10061-01-5	cis-1,3-Dichloropropene	6	U	
108-10-1	4-Methyl-2-Pentanone	24	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	6	U	
79-00-5	1,1,2-Trichloroethane	6	U	
108-88-3	Toluene	6	U	

NW 10/10/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SED-SW MS/MSD

6

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82718 Mod. Ref. No.: _____ SDG No.: 10052118

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052118-006

Sample wt/vol 5.02 (g/mL) g Lab File ID: 10052807

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec. 18 Date Analyzed: 05/28/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	12	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	49	U

KW 10/10/10

SW8260B

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-SED-SE

7

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82718 Mod. Ref. No.: _____ SDG No: 10052118

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052118-007

Sample wt/vol 4.93 (g/mL) g Lab File ID: 10052808

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec. 24 Date Analyzed: 05/28/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	7	U	
75-01-4	Vinyl Chloride	7	U	
74-83-9	Bromomethane	7	U	
75-00-3	Chloroethane	7	U	
67-64-1	Acetone	27	U	
75-35-4	1,1-Dichloroethene	7	U	
75-09-2	Methylene Chloride	7	U	
156-60-5	trans-1,2-Dichloroethene	7	U	
1634-04-4	Methyl-t-butyl ether	7	U	
75-34-3	1,1-Dichloroethane	7	U	
78-93-3	2-Butanone	27	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	7	U	
67-66-3	Chloroform	7	U	
71-55-6	1,1,1-Trichloroethane	7	U	
107-06-2	1,2-Dichloroethane	7	U	
56-23-5	Carbon Tetrachloride	7	U	
71-43-2	Benzene	7	U	
78-87-5	1,2-Dichloropropane	7	U	
75-15-0	Carbon Disulfide	13	U	
79-01-6	Trichloroethene	7	U	
75-27-4	Bromodichloromethane	7	U	
10061-01-5	cis-1,3-Dichloropropene	7	U	
108-10-1	4-Methyl-2-Pentanone	27	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	7	U	
79-00-5	1,1,2-Trichloroethane	7	U	
108-88-3	Toluene	7	U	

WW 10/10/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO
AOC-28-SED-SE

7

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82718 Mod Ref No : _____ SDG No : 10052118

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052118-007

Sample wt/vol 4.93 (g/mL) g Lab File ID: 10052808

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec 24 Date Analyzed: 05/28/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	7	U
124-48-1	Dibromochloromethane	7	U
75-25-2	Bromoform	7	U
127-18-4	Tetrachloroethene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
108-38-3	m,p-Xylenes	13	U
100-42-5	Styrene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U
95-47-6	o-Xylene	7	U
98-82-8	Isopropylbenzene	7	U
103-65-1	n-Propylbenzene	7	U
108-67-8	1,3,5-Trimethylbenzene	7	U
95-63-6	1,2,4-Trimethylbenzene	7	U
104-51-8	n-Butylbenzene	7	U
96-12-8	1,2-Dibromo-3-Chloropropane	53	U

NW 10/10/10

SW8260B

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SED-NW

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82718 Mod. Ref. No.: _____ SDG No: 10052118

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052118-008

Sample wt/vol 5.01 (g/mL) g Lab File ID: 10052809

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec. 31 Date Analyzed: 05/28/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	7	U	
75-01-4	Vinyl Chloride	7	U	
74-83-9	Bromomethane	7	U	
75-00-3	Chloroethane	7	U	
67-64-1	Acetone	29	U	
75-35-4	1,1-Dichloroethene	7	U	
75-09-2	Methylene Chloride	7	U	
156-60-5	trans-1,2-Dichloroethene	7	U	
1634-04-4	Methyl-t-butyl ether	7	U	
75-34-3	1,1-Dichloroethane	7	U	
78-93-3	2-Butanone	29	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	7	U	
67-66-3	Chloroform	7	U	
71-55-6	1,1,1-Trichloroethane	7	U	
107-06-2	1,2-Dichloroethane	7	U	
56-23-5	Carbon Tetrachloride	7	U	
71-43-2	Benzene	7	U	
78-87-5	1,2-Dichloropropane	7	U	
75-15-0	Carbon Disulfide	14	U	
79-01-6	Trichloroethene	7	U	
75-27-4	Bromodichloromethane	7	U	
10061-01-5	cis-1,3-Dichloropropene	7	U	
108-10-1	4-Methyl-2-Pentanone	29	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	7	U	
79-00-5	1,1,2-Trichloroethane	7	U	
108-88-3	Toluene	7	U	

AW 10/10/10

SW8260B

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SED-NW

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82718 Mod Ref. No.: _____ SDG No.: 10052118

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052118-008

Sample wt/vol 5.01 (g/mL) g Lab File ID: 10052809

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec. 31 Date Analyzed: 05/28/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	7	U
124-48-1	Dibromochloromethane	7	U
75-25-2	Bromoform	7	U
127-18-4	Tetrachloroethene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
108-38-3	m,p-Xylenes	14	U
100-42-5	Styrene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U
95-47-6	o-Xylene	7	U
98-82-8	Isopropylbenzene	7	U
103-65-1	n-Propylbenzene	7	U
108-67-8	1,3,5-Trimethylbenzene	7	U
95-63-6	1,2,4-Trimethylbenzene	7	U
104-51-8	n-Butylbenzene	7	U
96-12-8	1,2-Dibromo-3-Chloropropane	58	U

hw 10/10/10

SW8260B

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SW-NE

9

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82605 Mod. Ref. No.: _____ SDG No.: 10052118

Matrix: (SOIL/SED/WATER) SURFACE WATER Lab Sample ID: 10052118-020

Sample wt/vol 5.00 (g/mL) ml Lab File ID: 10052418

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec _____ Date Analyzed: 05/24/2010

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/L	Q	
74-87-3	Chloromethane	1	U	
75-01-4	Vinyl Chloride	1	U	
74-83-9	Bromomethane	1	U	
75-00-3	Chloroethane	1	U	
67-64-1	Acetone	10	~~U~~	R
75-35-4	1,1-Dichloroethene	1	U	
75-09-2	Methylene Chloride	1	U	
156-60-5	trans-1,2-Dichloroethene	1	U	
1634-04-4	Methyl-t-butyl ether	1	U	
75-34-3	1,1-Dichloroethane	1	U	
78-93-3	2-Butanone	10	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	1	U	
67-66-3	Chloroform	1	U	
71-55-6	1,1,1-Trichloroethane	1	U	
107-06-2	1,2-Dichloroethane	1	U	
56-23-5	Carbon Tetrachloride	1	U	
71-43-2	Benzene	1	U	
78-87-5	1,2-Dichloropropane	1	U	
79-01-6	Trichloroethene	1	U	
75-15-0	Carbon Disulfide	10	U	
75-27-4	Bromodichloromethane	1	U	
10061-01-5	cis-1,3-Dichloropropene	1	U	
108-10-1	4-Methyl-2-Pentanone	5	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	1	U	
79-00-5	1,1,2-Trichloroethane	1	U	
108-88-3	Toluene	1	U	

lew 10/10/10

SW8260B

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SW-NE

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82605 Mod. Ref. No.: _____ SDG No: 10052118

Matrix: (SOIL/SED/WATER) SURFACE WATER Lab Sample ID: 10052118-020

Sample wt/vol 5.00 (g/mL) ml Lab File ID: 10052418

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec. _____ Date Analyzed: 05/24/2010

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/L	Q
106-93-4	1,2-Dibromoethane	1	U
124-48-1	Dibromochloromethane	1	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	1	U
108-90-7	Chlorobenzene	1	~~U~~ UL
100-41-4	Ethylbenzene	1	U
108-38-3	m,p-Xylenes	2	U
100-42-5	Styrene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
95-47-6	o-Xylene	1	U
98-82-8	Isopropylbenzene	1	U
103-65-1	n-Propylbenzene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
104-51-8	n-Butylbenzene	1	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U

lew 10/10/10

SW8260B

10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SED-NE

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82718 Mod. Ref. No.: _____ SDG No.: 10052118

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052118-041

Sample wt/vol 5.13 (g/mL) g Lab File ID: 10052810

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec. 25 Date Analyzed: 05/28/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	6	U	
75-01-4	Vinyl Chloride	6	U	
74-83-9	Bromomethane	6	U	
75-00-3	Chloroethane	6	U	
67-64-1	Acetone	26	U	
75-35-4	1,1-Dichloroethene	6	U	
75-09-2	Methylene Chloride	6	U	
156-60-5	trans-1,2-Dichloroethene	6	U	
1634-04-4	Methyl-t-butyl ether	6	U	
75-34-3	1,1-Dichloroethane	6	U	
78-93-3	2-Butanone	26	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	6	U	
67-66-3	Chloroform	6	U	
71-55-6	1,1,1-Trichloroethane	6	U	
107-06-2	1,2-Dichloroethane	6	U	
56-23-5	Carbon Tetrachloride	6	U	
71-43-2	Benzene	6	U	
78-87-5	1,2-Dichloropropane	6	U	
75-15-0	Carbon Disulfide	13	U	
79-01-6	Trichloroethene	6	U	
75-27-4	Bromodichloromethane	6	U	
10061-01-5	cis-1,3-Dichloropropene	6	U	
108-10-1	4-Methyl-2-Pentanone	26	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	6	U	
79-00-5	1,1,2-Trichloroethane	6	U	
108-88-3	Toluene	6	U	

SW8260B

MW 10/10/10

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SED-NE

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82718 Mod Ref. No : _____ SDG No : 10052118

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052118-041

Sample wt/vol 5.13 (g/mL) g Lab File ID: 10052810

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec. 25 Date Analyzed: 05/28/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	13	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	52	U

MW 10/10/10

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1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB-11

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82605 Mod. Ref No.: _____ SDG No. : 10052118

Matrix: (SOIL/SED/WATER) SURFACE WATER Lab Sample ID: 10052118-042

Sample wt/vol 5.00 (g/mL) ml Lab File ID: 10052412

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec _____ Date Analyzed: 05/24/2010

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/L	Q	
74-87-3	Chloromethane	1	U	
75-01-4	Vinyl Chloride	1	U	
74-83-9	Bromomethane	1	U	
75-00-3	Chloroethane	1	U	
67-64-1	Acetone	10	~~U~~	R
75-35-4	1,1-Dichloroethene	1	U	
75-09-2	Methylene Chloride	1	U	
156-60-5	trans-1,2-Dichloroethene	1	U	
1634-04-4	Methyl-t-butyl ether	1	U	
75-34-3	1,1-Dichloroethane	1	U	
78-93-3	2-Butanone	10	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	1	U	
67-66-3	Chloroform	1	U	
71-55-6	1,1,1-Trichloroethane	1	U	
107-06-2	1,2-Dichloroethane	1	U	
56-23-5	Carbon Tetrachloride	1	U	
71-43-2	Benzene	1	U	
78-87-5	1,2-Dichloropropane	1	U	
79-01-6	Trichloroethene	1	U	
75-15-0	Carbon Disulfide	10	U	
75-27-4	Bromodichloromethane	1	U	
10061-01-5	cis-1,3-Dichloropropene	1	U	
108-10-1	4-Methyl-2-Pentanone	5	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	1	U	
79-00-5	1,1,2-Trichloroethane	1	U	
108-88-3	Toluene	1	U	

lw 10/10/10

SW8260B

11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
EB-11

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82605 Mod. Ref. No : _____ SDG No. : 10052118

Matrix: (SOIL/SED/WATER) SURFACE WATER Lab Sample ID: 10052118-042

Sample wt/vol 5.00 (g/mL) ml Lab File ID: 10052412

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec _____ Date Analyzed: 05/24/2010

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/L	Q
106-93-4	1,2-Dibromoethane	1	U
124-48-1	Dibromochloromethane	1	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	1	U
108-90-7	Chlorobenzene	1	~~U~~ UL
100-41-4	Ethylbenzene	1	U
108-38-3	m,p-Xylenes	2	U
100-42-5	Styrene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
95-47-6	o-Xylene	1	U
98-82-8	Isopropylbenzene	1	U
103-65-1	n-Propylbenzene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
104-51-8	n-Butylbenzene	1	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U

SW8260B

llw 10/10/10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TB-01

12

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82605 Mod. Ref. No.: _____ SDG No.: 10052118

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 10052118-044

Sample wt/vol 5.00 (g/mL) ml Lab File ID: 10052413

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec. _____ Date Analyzed: 05/24/2010

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/L	Q	
74-87-3	Chloromethane	1	U	
75-01-4	Vinyl Chloride	1	U	
74-83-9	Bromomethane	1	U	
75-00-3	Chloroethane	1	U	
67-64-1	Acetone	10	~~U~~	R
75-35-4	1,1-Dichloroethene	1	U	
75-09-2	Methylene Chloride	1	U	
156-60-5	trans-1,2-Dichloroethene	1	U	
1634-04-4	Methyl-t-butyl ether	1	U	
75-34-3	1,1-Dichloroethane	1	U	
78-93-3	2-Butanone	10	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	1	U	
67-66-3	Chloroform	1	U	
71-55-6	1,1,1-Trichloroethane	1	U	
107-06-2	1,2-Dichloroethane	1	U	
56-23-5	Carbon Tetrachloride	1	U	
71-43-2	Benzene	1	U	
78-87-5	1,2-Dichloropropane	1	U	
79-01-6	Trichloroethene	1	U	
75-15-0	Carbon Disulfide	10	U	
75-27-4	Bromodichloromethane	1	U	
10061-01-5	cis-1,3-Dichloropropene	1	U	
108-10-1	4-Methyl-2-Pentanone	5	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	1	U	
79-00-5	1,1,2-Trichloroethane	1	U	
108-88-3	Toluene	1	U	

lw 10/10/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TB-01

12

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82605 Mod Ref No.: _____ SDG No: 10052118

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 10052118-044

Sample wt/vol 5.00 (g/mL) ml Lab File ID: 10052413

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec. _____ Date Analyzed: 05/24/2010

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/L	Q
106-93-4	1,2-Dibromoethane	1	U
124-48-1	Dibromochloromethane	1	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	1	U
108-90-7	Chlorobenzene	1	~~U~~ UL
100-41-4	Ethylbenzene	1	U
108-38-3	m,p-Xylenes	2	U
100-42-5	Styrene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
95-47-6	o-Xylene	1	U
98-82-8	Isopropylbenzene	1	U
103-65-1	n-Propylbenzene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
104-51-8	n-Butylbenzene	1	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U

SW8260B

LW 10/10/10

ENVIRONMENTAL
Data Services, Inc.

SEMIVOLATILE ORGANIC COMPOUNDS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10052118

Client: ARGO Systems, Glen Burnie, MD Date: October 10, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-28-SW-SW	10052118-001	Water
1MS	AOC-28-SW-SWMS	10052118-001MS	Water
1MSD	AOC-28-SW-SWMSD	10052118-001MSD	Water
2	AOC-28-SW-NW	10052118-002	Water
3	AOC-28-SW-SE	10052118-003	Water
4	DUP-AOC-28-SW-01	10052118-004	Water
5	DUP-SED-01	10052118-005	Soil
6	AOC-28-SED-SW	10052118-006	Soil
6MS	AOC-28-SED-SWMS	10052118-006MS	Soil
6MSD	AOC-28-SED-SWMSD	10052118-006MSD	Soil
7	AOC-28-SED-SE	10052118-007	Soil
8	AOC-28-SED-NW	10052118-008	Soil
9	AOC-28-SW-NE	10052118-020	Water
10	AOC-28-SED-NE	10052118-041	Soil
11	EB-11	10052118-042	Water

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 7 days for water samples, 14 days for soil samples, and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
05/26/10	2,4-Dinitrophenol	28.1%	None	All ND

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD samples exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS sample exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level ug/L	Qualifier	Affected Samples
EB-11	None- ND	-	-	-	-

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-28-SW-NW ug/L	DUP-AOC-28-SW-01 ug/L	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-28-SED-NW ug/kg	DUP-SED-01 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Tentatively Identified Compounds (TICs) - TICs were not reported.

Compound Quantitation - No discrepancies were identified.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-28-SW-SW MS/MS

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82699 Mod. Ref No.: _____ SDG No.: 10052118

Matrix : (SOIL/SED/WATER) SURFACE WATER Lab Sample Id: 10052118-001

Sample wt/vol: 1000 (g/mL): ml Lab File ID: 10052732.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/28/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
83-32-9	Acenaphthene	5	U
208-96-8	Acenaphthylene	5	U
120-12-7	Anthracene	5	U
56-55-3	Benzo(a)anthracene	0.5	U
50-32-8	Benzo(a)pyrene	0.5	U
205-99-2	Benzo(b)fluoranthene	0.5	U
191-24-2	Benzo(g,h,i)perylene	5	U
207-08-9	Benzo(k)fluoranthene	0.5	U
111-44-4	bis(2-chloroethyl) ether	0.5	U
108-60-1	bis(2-chloroisopropyl) ether	0.5	U
117-81-7	bis(2-ethylhexyl) phthalate	5	U
84-74-2	Di-n-butyl phthalate	5	U
86-74-8	Carbazole	5	U
106-47-8	4-Chloroaniline	10	U
91-58-7	2-Chloronaphthalene	5	U
95-57-8	2-Chlorophenol	2	U
218-01-9	Chrysene	2	U
53-70-3	Dibenz(a,h)Anthracene	0.5	U
132-64-9	Dibenzofuran	2	U
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	0.5	U
91-94-1	3,3-Dichlorobenzidine	0.5	U
120-83-2	2,4-Dichlorophenol	5	U
84-66-2	Diethyl phthalate	5	U
105-67-9	2,4-Dimethylphenol	5	U
51-28-5	2,4-Dinitrophenol	5	U
121-14-2	2,4-Dinitrotoluene	5	U
606-20-2	2,6-Dinitrotoluene	2	U
206-44-0	Fluoranthene	5	U
86-73-7	Fluorene	5	U
118-74-1	Hexachlorobenzene	1	U
87-68-3	Hexachlorobutadiene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U

RW 10/10/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-28-SW-SW MS/MS

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82699 Mod. Ref No : _____ SDG No : 10052118

Matrix : (SOIL/SED/WATER) SURFACE WATER Lab Sample Id: 10052118-001

Sample wt/vol: 1000 (g/mL):ml Lab File ID: 10052732.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/28/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
67-72-1	Hexachloroethane	2	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.5	U
78-59-1	Isophorone	5	U
91-57-6	2-Methylnaphthalene	2	U
95-48-7	2-Methyl phenol	5	U
	3&4-Methylphenol	5	U
91-20-3	Naphthalene	0.5	U
98-95-3	Nitrobenzene	2	U
621-64-7	N-Nitrosodi-n-propyl amine	0.5	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
87-86-5	Pentachlorophenol	2	U
85-01-8	Phenanthrene	5	U
108-95-2	Phenol	5	U
129-00-0	Pyrene	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	5	U
103-23-1	Bis(2-ethylhexyl)adipate	5	U

(1) Cannot be separated from Diphenylamine

NW 10/10/10

SW8270C

2

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-28-SW-NW

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82699 Mod Ref No.: _____ SDG No.: 10052118

Matrix : (SOIL/SED/WATER) SURFACE WATER Lab Sample Id: 10052118-002

Sample wt/vol: 1000 (g/mL):ml Lab File ID: 10052735.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/28/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
83-32-9	Acenaphthene	5	U
208-96-8	Acenaphthylene	5	U
120-12-7	Anthracene	5	U
56-55-3	Benzo(a)anthracene	0.5	U
50-32-8	Benzo(a)pyrene	0.5	U
205-99-2	Benzo(b)fluoranthene	0.5	U
191-24-2	Benzo(g,h,i)perylene	5	U
207-08-9	Benzo(k)fluoranthene	0.5	U
111-44-4	bis(2-chloroethyl) ether	0.5	U
108-60-1	bis(2-chloroisopropyl) ether	0.5	U
117-81-7	bis(2-ethylhexyl) phthalate	5	U
84-74-2	Di-n-butyl phthalate	5	U
86-74-8	Carbazole	5	U
106-47-8	4-Chloroaniline	10	U
91-58-7	2-Chloronaphthalene	5	U
95-57-8	2-Chlorophenol	2	U
218-01-9	Chrysene	2	U
53-70-3	Dibenz(a,h)Anthracene	0.5	U
132-64-9	Dibenzofuran	2	U
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	0.5	U
91-94-1	3,3-Dichlorobenzidine	0.5	U
120-83-2	2,4-Dichlorophenol	5	U
84-66-2	Diethyl phthalate	5	U
105-67-9	2,4-Dimethylphenol	5	U
51-28-5	2,4-Dinitrophenol	5	U
121-14-2	2,4-Dinitrotoluene	5	U
606-20-2	2,6-Dinitrotoluene	2	U
206-44-0	Fluoranthene	5	U
86-73-7	Fluorene	5	U
118-74-1	Hexachlorobenzene	1	U
87-68-3	Hexachlorobutadiene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U

kej 10/10/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-28-SW-NW

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82699 Mod Ref No.: _____ SDG No.: 10052118

Matrix : (SOIL/SED/WATER) SURFACE WATER Lab Sample Id: 10052118-002

Sample wt/vol: 1000 (g/mL): ml Lab File ID: 10052735.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/28/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
67-72-1	Hexachloroethane	2	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.5	U
78-59-1	Isophorone	5	U
91-57-6	2-Methylnaphthalene	2	U
95-48-7	2-Methyl phenol	5	U
	3&4-Methylphenol	5	U
91-20-3	Naphthalene	0.5	U
98-95-3	Nitrobenzene	2	U
621-64-7	N-Nitrosodi-n-propyl amine	0.5	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
87-86-5	Pentachlorophenol	2	U
85-01-8	Phenanthrene	5	U
108-95-2	Phenol	5	U
129-00-0	Pyrene	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	5	U
103-23-1	Bis(2-ethylhexyl)adipate	5	U

(1) Cannot be separated from Diphenylamine

MW 10/10/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-28-SW-SE

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82699 Mod. Ref No.: _____ SDG No.: 10052118

Matrix : (SOIL/SED/WATER) SURFACE WATER Lab Sample Id: 10052118-003

Sample wt/vol: 700 (g/mL): ml Lab File ID: 10052736.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/28/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
83-32-9	Acenaphthene	7	U
208-96-8	Acenaphthylene	7	U
120-12-7	Anthracene	7	U
56-55-3	Benzo(a)anthracene	0.7	U
50-32-8	Benzo(a)pyrene	0.7	U
205-99-2	Benzo(b)fluoranthene	0.7	U
191-24-2	Benzo(g,h,i)perylene	7	U
207-08-9	Benzo(k)fluoranthene	0.7	U
111-44-4	bis(2-chloroethyl) ether	0.7	U
108-60-1	bis(2-chloroisopropyl) ether	0.7	U
117-81-7	bis(2-ethylhexyl) phthalate	7	U
84-74-2	Di-n-butyl phthalate	7	U
86-74-8	Carbazole	7	U
106-47-8	4-Chloroaniline	14	U
91-58-7	2-Chloronaphthalene	7	U
95-57-8	2-Chlorophenol	3	U
218-01-9	Chrysene	3	U
53-70-3	Dibenz(a,h)Anthracene	0.7	U
132-64-9	Dibenzofuran	3	U
95-50-1	1,2-Dichlorobenzene	7	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	0.7	U
91-94-1	3,3-Dichlorobenzidine	0.7	U
120-83-2	2,4-Dichlorophenol	7	U
84-66-2	Diethyl phthalate	7	U
105-67-9	2,4-Dimethylphenol	7	U
51-28-5	2,4-Dinitrophenol	7	U
121-14-2	2,4-Dinitrotoluene	7	U
606-20-2	2,6-Dinitrotoluene	3	U
206-44-0	Fluoranthene	7	U
86-73-7	Fluorene	7	U
118-74-1	Hexachlorobenzene	1	U
87-68-3	Hexachlorobutadiene	7	U
77-47-4	Hexachlorocyclopentadiene	7	U

MW 10/10/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-28-SW-SE

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82699 Mod Ref No.: _____ SDG No.: 10052118

Matrix : (SOIL/SED/WATER) SURFACE WATER Lab Sample Id: 10052118-003

Sample wt/vol: 700 (g/mL): ml Lab File ID: 10052736.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/26/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/28/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
67-72-1	Hexachloroethane	3	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.7	U
78-59-1	Isophorone	7	U
91-57-6	2-Methylnaphthalene	3	U
95-48-7	2-Methyl phenol	7	U
	3&4-Methylphenol	7	U
91-20-3	Naphthalene	0.7	U
98-95-3	Nitrobenzene	3	U
621-64-7	N-Nitrosodi-n-propyl amine	0.7	U
86-30-6	N-Nitrosodiphenylamine (1)	7	U
87-86-5	Pentachlorophenol	3	U
85-01-8	Phenanthrene	7	U
108-95-2	Phenol	7	U
129-00-0	Pyrene	7	U
120-82-1	1,2,4-Trichlorobenzene	7	U
88-06-2	2,4,6-Trichlorophenol	7	U
95-95-4	2,4,5-Trichlorophenol	7	U
103-23-1	Bis(2-ethylhexyl)adipate	7	U

(1) Cannot be separated from Diphenylamine

MW 10/10/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
DUP-AOC-28-SW-01

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82699 Mod. Ref No : _____ SDG No : 10052118

Matrix : (SOIL/SED/WATER) SURFACE WATER Lab Sample Id: 10052118-004

Sample wt/vol: 1000 (g/mL): ml Lab File ID: 10052737.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/28/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
83-32-9	Acenaphthene	5	U
208-96-8	Acenaphthylene	5	U
120-12-7	Anthracene	5	U
56-55-3	Benzo(a)anthracene	0.5	U
50-32-8	Benzo(a)pyrene	0.5	U
205-99-2	Benzo(b)fluoranthene	0.5	U
191-24-2	Benzo(g,h,i)perylene	5	U
207-08-9	Benzo(k)fluoranthene	0.5	U
111-44-4	bis(2-chloroethyl) ether	0.5	U
108-60-1	bis(2-chloroisopropyl) ether	0.5	U
117-81-7	bis(2-ethylhexyl) phthalate	5	U
84-74-2	Di-n-butyl phthalate	5	U
86-74-8	Carbazole	5	U
106-47-8	4-Chloroaniline	10	U
91-58-7	2-Chloronaphthalene	5	U
95-57-8	2-Chlorophenol	2	U
218-01-9	Chrysene	2	U
53-70-3	Dibenz(a,h)Anthracene	0.5	U
132-64-9	Dibenzofuran	2	U
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	0.5	U
91-94-1	3,3-Dichlorobenzidine	0.5	U
120-83-2	2,4-Dichlorophenol	5	U
84-66-2	Diethyl phthalate	5	U
105-67-9	2,4-Dimethylphenol	5	U
51-28-5	2,4-Dinitrophenol	5	U
121-14-2	2,4-Dinitrotoluene	5	U
606-20-2	2,6-Dinitrotoluene	2	U
206-44-0	Fluoranthene	5	U
86-73-7	Fluorene	5	U
118-74-1	Hexachlorobenzene	1	U
87-68-3	Hexachlorobutadiene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U

new 10/10/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-AOC-28-SW-01

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82699 Mod Ref No : _____ SDG No : 10052118

Matrix : (SOIL/SED/WATER) SURFACE WATER Lab Sample Id: 10052118-004

Sample wt/vol: 1000 (g/mL): ml Lab File ID: 10052737.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/26/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/28/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
67-72-1	Hexachloroethane	2	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.5	U
78-59-1	Isophorone	5	U
91-57-6	2-Methylnaphthalene	2	U
95-48-7	2-Methyl phenol	5	U
	3&4-Methylphenol	5	U
91-20-3	Naphthalene	0.5	U
98-95-3	Nitrobenzene	2	U
621-64-7	N-Nitrosodi-n-propyl amine	0.5	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
87-86-5	Pentachlorophenol	2	U
85-01-8	Phenanthrene	5	U
108-95-2	Phenol	5	U
129-00-0	Pyrene	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	5	U
103-23-1	Bis(2-ethylhexyl)adipate	5	U

(1) Cannot be separated from Diphenylamine

MW 10/10/10

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
DUP-SED-01

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82643 Mod Ref No.: _____ SDG No.: 10052118

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052118-005

Sample wt/vol: 30.17 (g/mL):g Lab File ID: 10052531.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 38 Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/25/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/26/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	270	U
208-96-8	Acenaphthylene	270	U
120-12-7	Anthracene	270	U
56-55-3	Benzo(a)anthracene	270	U
50-32-8	Benzo(a)pyrene	37	U
205-99-2	Benzo(b)fluoranthene	270	U
191-24-2	Benzo(g,h,i)perylene	270	U
207-08-9	Benzo(k)fluoranthene	270	U
111-44-4	bis(2-chloroethyl) ether	270	U
108-60-1	bis(2-chloroisopropyl) ether	270	U
117-81-7	bis(2-ethylhexyl) phthalate	270	U
84-74-2	Di-n-butyl phthalate	530	U
86-74-8	Carbazole	270	U
106-47-8	4-Chloroaniline	530	U
91-58-7	2-Chloronaphthalene	270	U
95-57-8	2-Chlorophenol	270	U
218-01-9	Chrysene	270	U
53-70-3	Dibenz(a,h)Anthracene	37	U
132-64-9	Dibenzofuran	270	U
95-50-1	1,2-Dichlorobenzene	270	U
541-73-1	1,3-Dichlorobenzene	270	U
106-46-7	1,4-Dichlorobenzene	270	U
91-94-1	3,3-Dichlorobenzidine	270	U
120-83-2	2,4-Dichlorophenol	270	U
84-66-2	Diethyl phthalate	270	U
105-67-9	2,4-Dimethylphenol	270	U
51-28-5	2,4-Dinitrophenol	530	U
121-14-2	2,4-Dinitrotoluene	270	U
606-20-2	2,6-Dinitrotoluene	270	U
206-44-0	Fluoranthene	270	U
86-73-7	Fluorene	270	U
118-74-1	Hexachlorobenzene	270	U
87-68-3	Hexachlorobutadiene	270	U
77-47-4	Hexachlorocyclopentadiene	270	U

1w 10/10/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-SED-01

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82643 Mod. Ref No : _____ SDG No.: 10052118

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052118-005

Sample wt/vol: 30.17 (g/mL):g Lab File ID: 10052531.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 38 Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/26/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	270	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	270	U
78-59-1	Isophorone	270	U
91-57-6	2-Methylnaphthalene	270	U
95-48-7	2-Methyl phenol	270	U
	3&4-Methylphenol	270	U
91-20-3	Naphthalene	270	U
98-95-3	Nitrobenzene	270	U
621-64-7	N-Nitrosodi-n-propyl amine	110	U
86-30-6	N-Nitrosodiphenylamine (1)	270	U
87-86-5	Pentachlorophenol	530	U
85-01-8	Phenanthrene	270	U
108-95-2	Phenol	270	U
129-00-0	Pyrene	270	U
103-23-1	Bis(2-ethylhexyl)adipate	270	U
120-82-1	1,2,4-Trichlorobenzene	270	U
88-06-2	2,4,6-Trichlorophenol	270	U
95-95-4	2,4,5-Trichlorophenol	270	U

(1) Cannot be separated from Diphenylamine

MW 10/10/10

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-28-SED-SW MS/MS

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82643 Mod Ref No.: _____ SDG No.: 10052118

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052118-006

Sample wt/vol: 30.02 (g/mL):g Lab File ID: 10052532.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/26/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	410	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	410	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	410	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

MM 10/10/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-28-SED-SW MS/MS

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82643 Mod. Ref No : ____ SDG No : 10052118

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052118-006

Sample wt/vol: 30.02 (g/mL):g Lab File ID: 10052532.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/25/2010

Injection Volume: ____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/26/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	81	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

LW 10/10/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-28-SED-SE

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82643 Mod. Ref No.: _____ SDG No.: 10052118

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052118-007

Sample wt/vol: 30.01 (g/mL): g Lab File ID: 10052533.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/26/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	220	U
208-96-8	Acenaphthylene	220	U
120-12-7	Anthracene	220	U
56-55-3	Benzo(a)anthracene	220	U
50-32-8	Benzo(a)pyrene	31	U
205-99-2	Benzo(b)fluoranthene	220	U
191-24-2	Benzo(g,h,i)perylene	220	U
207-08-9	Benzo(k)fluoranthene	220	U
111-44-4	bis(2-chloroethyl) ether	220	U
108-60-1	bis(2-chloroisopropyl) ether	220	U
117-81-7	bis(2-ethylhexyl) phthalate	220	U
84-74-2	Di-n-butyl phthalate	440	U
86-74-8	Carbazole	220	U
106-47-8	4-Chloroaniline	440	U
91-58-7	2-Chloronaphthalene	220	U
95-57-8	2-Chlorophenol	220	U
218-01-9	Chrysene	220	U
53-70-3	Dibenz(a,h)Anthracene	31	U
132-64-9	Dibenzofuran	220	U
95-50-1	1,2-Dichlorobenzene	220	U
541-73-1	1,3-Dichlorobenzene	220	U
106-46-7	1,4-Dichlorobenzene	220	U
91-94-1	3,3-Dichlorobenzidine	220	U
120-83-2	2,4-Dichlorophenol	220	U
84-66-2	Diethyl phthalate	220	U
105-67-9	2,4-Dimethylphenol	220	U
51-28-5	2,4-Dinitrophenol	440	U
121-14-2	2,4-Dinitrotoluene	220	U
606-20-2	2,6-Dinitrotoluene	220	U
206-44-0	Fluoranthene	220	U
86-73-7	Fluorene	220	U
118-74-1	Hexachlorobenzene	220	U
87-68-3	Hexachlorobutadiene	220	U
77-47-4	Hexachlorocyclopentadiene	220	U

LW 10/10/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-28-SED-SE

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82643 Mod. Ref No.: _____ SDG No.: 10052118

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052118-007

Sample wt/vol: 30.01 (g/mL):g Lab File ID: 10052533.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/26/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	220	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	220	U
78-59-1	Isophorone	220	U
91-57-6	2-Methylnaphthalene	220	U
95-48-7	2-Methyl phenol	220	U
	3&4-Methylphenol	220	U
91-20-3	Naphthalene	220	U
98-95-3	Nitrobenzene	220	U
621-64-7	N-Nitrosodi-n-propyl amine	88	U
86-30-6	N-Nitrosodiphenylamine (1)	220	U
87-86-5	Pentachlorophenol	440	U
85-01-8	Phenanthrene	220	U
108-95-2	Phenol	220	U
129-00-0	Pyrene	220	U
103-23-1	Bis(2-ethylhexyl)adipate	220	U
120-82-1	1,2,4-Trichlorobenzene	220	U
88-06-2	2,4,6-Trichlorophenol	220	U
95-95-4	2,4,5-Trichlorophenol	220	U

(1) Cannot be separated from Diphenylamine

AW 10/10/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-28-SED-NW

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82643 Mod. Ref No : _____ SDG No.: 10052118

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052118-008

Sample wt/vol: 30.05 (g/mL):g Lab File ID: 10052534.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 31 Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/26/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	240	U
208-96-8	Acenaphthylene	240	U
120-12-7	Anthracene	240	U
56-55-3	Benzo(a)anthracene	240	U
50-32-8	Benzo(a)pyrene	34	U
205-99-2	Benzo(b)fluoranthene	240	U
191-24-2	Benzo(g,h,i)perylene	240	U
207-08-9	Benzo(k)fluoranthene	240	U
111-44-4	bis(2-chloroethyl) ether	240	U
108-60-1	bis(2-chloroisopropyl) ether	240	U
117-81-7	bis(2-ethylhexyl) phthalate	240	U
84-74-2	Di-n-butyl phthalate	480	U
86-74-8	Carbazole	240	U
106-47-8	4-Chloroaniline	480	U
91-58-7	2-Chloronaphthalene	240	U
95-57-8	2-Chlorophenol	240	U
218-01-9	Chrysene	240	U
53-70-3	Dibenz(a,h)Anthracene	34	U
132-64-9	Dibenzofuran	240	U
95-50-1	1,2-Dichlorobenzene	240	U
541-73-1	1,3-Dichlorobenzene	240	U
106-46-7	1,4-Dichlorobenzene	240	U
91-94-1	3,3-Dichlorobenzidine	240	U
120-83-2	2,4-Dichlorophenol	240	U
84-66-2	Diethyl phthalate	240	U
105-67-9	2,4-Dimethylphenol	240	U
51-28-5	2,4-Dinitrophenol	480	U
121-14-2	2,4-Dinitrotoluene	240	U
606-20-2	2,6-Dinitrotoluene	240	U
206-44-0	Fluoranthene	240	U
86-73-7	Fluorene	240	U
118-74-1	Hexachlorobenzene	240	U
87-68-3	Hexachlorobutadiene	240	U
77-47-4	Hexachlorocyclopentadiene	240	U

nw 10/10/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-28-SED-NW

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82643 Mod Ref No.: _____ SDG No.: 10052118

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052118-008

Sample wt/vol: 30.05 (g/mL):g Lab File ID: 10052534.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 31 Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/26/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	240	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	240	U
78-59-1	Isophorone	240	U
91-57-6	2-Methylnaphthalene	240	U
95-48-7	2-Methyl phenol	240	U
	3&4-Methylphenol	240	U
91-20-3	Naphthalene	240	U
98-95-3	Nitrobenzene	240	U
621-64-7	N-Nitrosodi-n-propyl amine	96	U
86-30-6	N-Nitrosodiphenylamine (1)	240	U
87-86-5	Pentachlorophenol	480	U
85-01-8	Phenanthrene	240	U
108-95-2	Phenol	240	U
129-00-0	Pyrene	240	U
103-23-1	Bis(2-ethylhexyl)adipate	240	U
120-82-1	1,2,4-Trichlorobenzene	240	U
88-06-2	2,4,6-Trichlorophenol	240	U
95-95-4	2,4,5-Trichlorophenol	240	U

(1) Cannot be separated from Diphenylamine

MW 10/10/10

9

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-28-SW-NE

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82699 Mod. Ref No.: ____ SDG No.: 10052118

Matrix : (SOIL/SED/WATER) SURFACE WATER Lab Sample Id: 10052118-020

Sample wt/vol: 1000 (g/mL): ml Lab File ID: 10052738.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: ____ Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/26/2010

Injection Volume: ____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/28/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
83-32-9	Acenaphthene	5	U
208-96-8	Acenaphthylene	5	U
120-12-7	Anthracene	5	U
56-55-3	Benzo(a)anthracene	0.5	U
50-32-8	Benzo(a)pyrene	0.5	U
205-99-2	Benzo(b)fluoranthene	0.5	U
191-24-2	Benzo(g,h,i)perylene	5	U
207-08-9	Benzo(k)fluoranthene	0.5	U
111-44-4	bis(2-chloroethyl) ether	0.5	U
108-60-1	bis(2-chloroisopropyl) ether	0.5	U
117-81-7	bis(2-ethylhexyl) phthalate	5	U
84-74-2	Di-n-butyl phthalate	5	U
86-74-8	Carbazole	5	U
106-47-8	4-Chloroaniline	10	U
91-58-7	2-Chloronaphthalene	5	U
95-57-8	2-Chlorophenol	2	U
218-01-9	Chrysene	2	U
53-70-3	Dibenz(a,h)Anthracene	0.5	U
132-64-9	Dibenzofuran	2	U
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	0.5	U
91-94-1	3,3-Dichlorobenzidine	0.5	U
120-83-2	2,4-Dichlorophenol	5	U
84-66-2	Diethyl phthalate	5	U
105-67-9	2,4-Dimethylphenol	5	U
51-28-5	2,4-Dinitrophenol	5	U
121-14-2	2,4-Dinitrotoluene	5	U
606-20-2	2,6-Dinitrotoluene	2	U
206-44-0	Fluoranthene	5	U
86-73-7	Fluorene	5	U
118-74-1	Hexachlorobenzene	1	U
87-68-3	Hexachlorobutadiene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U

CW 10/10/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-28-SW-NE

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82699 Mod. Ref No : _____ SDG No : 10052118

Matrix : (SOIL/SED/WATER) SURFACE WATER Lab Sample Id: 10052118-020

Sample wt/vol: 1000 (g/mL):ml Lab File ID: 10052738.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/28/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
67-72-1	Hexachloroethane	2	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.5	U
78-59-1	Isophorone	5	U
91-57-6	2-Methylnaphthalene	2	U
95-48-7	2-Methyl phenol	5	U
	3&4-Methylphenol	5	U
91-20-3	Naphthalene	0.5	U
98-95-3	Nitrobenzene	2	U
621-64-7	N-Nitrosodi-n-propyl amine	0.5	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
87-86-5	Pentachlorophenol	2	U
85-01-8	Phenanthrene	5	U
108-95-2	Phenol	5	U
129-00-0	Pyrene	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	5	U
103-23-1	Bis(2-ethylhexyl)adipate	5	U

(1) Cannot be separated from Diphenylamine

hw 10/10/10

10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-28-SED-NE

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82643 Mod Ref No : _____ SDG No : 10052118

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052118-041

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10052535.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/26/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	220	U
208-96-8	Acenaphthylene	220	U
120-12-7	Anthracene	220	U
56-55-3	Benzo(a)anthracene	220	U
50-32-8	Benzo(a)pyrene	31	U
205-99-2	Benzo(b)fluoranthene	220	U
191-24-2	Benzo(g,h,i)perylene	220	U
207-08-9	Benzo(k)fluoranthene	220	U
111-44-4	bis(2-chloroethyl) ether	220	U
108-60-1	bis(2-chloroisopropyl) ether	220	U
117-81-7	bis(2-ethylhexyl) phthalate	220	U
84-74-2	Di-n-butyl phthalate	440	U
86-74-8	Carbazole	220	U
106-47-8	4-Chloroaniline	440	U
91-58-7	2-Chloronaphthalene	220	U
95-57-8	2-Chlorophenol	220	U
218-01-9	Chrysene	220	U
53-70-3	Dibenz(a,h)Anthracene	31	U
132-64-9	Dibenzofuran	220	U
95-50-1	1,2-Dichlorobenzene	220	U
541-73-1	1,3-Dichlorobenzene	220	U
106-46-7	1,4-Dichlorobenzene	220	U
91-94-1	3,3-Dichlorobenzidine	220	U
120-83-2	2,4-Dichlorophenol	220	U
84-66-2	Diethyl phthalate	220	U
105-67-9	2,4-Dimethylphenol	220	U
51-28-5	2,4-Dinitrophenol	440	U
121-14-2	2,4-Dinitrotoluene	220	U
606-20-2	2,6-Dinitrotoluene	220	U
206-44-0	Fluoranthene	220	U
86-73-7	Fluorene	220	U
118-74-1	Hexachlorobenzene	220	U
87-68-3	Hexachlorobutadiene	220	U
77-47-4	Hexachlorocyclopentadiene	220	U

kw 10/10/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-28-SED-NE

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82643 Mod. Ref No.: _____ SDG No.: 10052118

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052118-041

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10052535.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/26/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	220	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	220	U
78-59-1	Isophorone	220	U
91-57-6	2-Methylnaphthalene	220	U
95-48-7	2-Methyl phenol	220	U
	3&4-Methylphenol	220	U
91-20-3	Naphthalene	220	U
98-95-3	Nitrobenzene	220	U
621-64-7	N-Nitrosodi-n-propyl amine	89	U
86-30-6	N-Nitrosodiphenylamine (1)	220	U
87-86-5	Pentachlorophenol	440	U
85-01-8	Phenanthrene	220	U
108-95-2	Phenol	220	U
129-00-0	Pyrene	220	U
103-23-1	Bis(2-ethylhexyl)adipate	220	U
120-82-1	1,2,4-Trichlorobenzene	220	U
88-06-2	2,4,6-Trichlorophenol	220	U
95-95-4	2,4,5-Trichlorophenol	220	U

(1) Cannot be separated from Diphenylamine

LW 10/10/10

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
EB-11

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82699 Mod. Ref No.: _____ SDG No.: 10052118

Matrix : (SOIL/SED/WATER) SURFACE WATER Lab Sample Id: 10052118-042

Sample wt/vol: 1000 (g/mL): ml Lab File ID: 10052739.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: ____ ____ Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/28/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
83-32-9	Acenaphthene	5	U
208-96-8	Acenaphthylene	5	U
120-12-7	Anthracene	5	U
56-55-3	Benzo(a)anthracene	0.5	U
50-32-8	Benzo(a)pyrene	0.5	U
205-99-2	Benzo(b)fluoranthene	0.5	U
191-24-2	Benzo(g,h,i)perylene	5	U
207-08-9	Benzo(k)fluoranthene	0.5	U
111-44-4	bis(2-chloroethyl) ether	0.5	U
108-60-1	bis(2-chloroisopropyl) ether	0.5	U
117-81-7	bis(2-ethylhexyl) phthalate	5	U
84-74-2	Di-n-butyl phthalate	5	U
86-74-8	Carbazole	5	U
106-47-8	4-Chloroaniline	10	U
91-58-7	2-Chloronaphthalene	5	U
95-57-8	2-Chlorophenol	2	U
218-01-9	Chrysene	2	U
53-70-3	Dibenz(a,h)Anthracene	0.5	U
132-64-9	Dibenzofuran	2	U
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	0.5	U
91-94-1	3,3-Dichlorobenzidine	0.5	U
120-83-2	2,4-Dichlorophenol	5	U
84-66-2	Diethyl phthalate	5	U
105-67-9	2,4-Dimethylphenol	5	U
51-28-5	2,4-Dinitrophenol	5	U
121-14-2	2,4-Dinitrotoluene	5	U
606-20-2	2,6-Dinitrotoluene	2	U
206-44-0	Fluoranthene	5	U
86-73-7	Fluorene	5	U
118-74-1	Hexachlorobenzene	1	U
87-68-3	Hexachlorobutadiene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U

MW 10/10/10

SW8270C

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IE - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
EB-11

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82699 Mod. Ref No : _____ SDG No : 10052118

Matrix : (SOIL/SED/WATER) SURFACE WATER Lab Sample Id: 10052118-042

Sample wt/vol: 1000 (g/mL):ml Lab File ID: 10052739.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/28/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
67-72-1	Hexachloroethane	2	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.5	U
78-59-1	Isophorone	5	U
91-57-6	2-Methylnaphthalene	2	U
95-48-7	2-Methyl phenol	5	U
	3&4-Methylphenol	5	U
91-20-3	Naphthalene	0.5	U
98-95-3	Nitrobenzene	2	U
621-64-7	N-Nitrosodi-n-propyl amine	0.5	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
87-86-5	Pentachlorophenol	2	U
85-01-8	Phenanthrene	5	U
108-95-2	Phenol	5	U
129-00-0	Pyrene	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	5	U
103-23-1	Bis(2-ethylhexyl)adipate	5	U

(1) Cannot be separated from Diphenylamine

NW 10/10/10

SW8270C

ENVIRONMENTAL
Data Services, Inc.

PESTICIDES

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10052118

Client: ARGO Systems, Glen Burnie, MD Date: October 10, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-28-SW-SW	10052118-001	Water
1MS	AOC-28-SW-SWMS	10052118-001MS	Water
1MSD	AOC-28-SW-SWMSD	10052118-001MSD	Water
2	AOC-28-SW-NW	10052118-002	Water
3	AOC-28-SW-SE	10052118-003	Water
4	DUP-AOC-28-SW-01	10052118-004	Water
5	DUP-SED-01	10052118-005	Soil
6	AOC-28-SED-SW	10052118-006	Soil
6MS	AOC-28-SED-SWMS	10052118-006MS	Soil
6MSD	AOC-28-SED-SWMSD	10052118-006MSD	Soil
7	AOC-28-SED-SE	10052118-007	Soil
8	AOC-28-SED-NW	10052118-008	Soil
9	AOC-28-SW-NE	10052118-020	Water
10	AOC-28-SED-NE	10052118-041	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 7 days for water samples, 14 days for soil samples, and analyzed within 40 days.

Instrument performance - All 4,4'-DDT/endrin % breakdown, resolution check mixture and PEMs were within criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD values.

Calibration Verification - The continuing calibrations exhibited acceptable %D values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD samples exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-28-SW-NW ug/L	DUP-AOC-28-SW-01 ug/L	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-28-SED-NW ug/kg	DUP-SED-01 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound Identification - Retention times were acceptable and no further action was taken.

Compound Quantitation - No discrepancies were identified.

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SW-SW MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod Ref No. _____ SDG No : 10052118

Matrix (SOIL/SED/WATER): SURFACE WATER Lab Sample Id: 10052118-001

Sample wt/vol: 1000 (g/mL): mL Lab File ID: 10052519.D

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SEPF Date Extracted: 05/24/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82657

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
309-00-2	Aldrin	0.04	U
319-84-6	alpha-BHC	0.04	U
319-85-7	beta-BHC	0.04	U
319-86-8	delta-BHC	0.08	U
5103-71-9	alpha-Chlordane	0.08	U
5103-74-2	gamma-Chlordane	0.08	U
72-54-8	4,4-DDD	0.08	U
72-55-9	4,4-DDE	0.08	U
50-29-3	4,4-DDT	0.08	U
60-57-1	Dieldrin	0.04	U
959-98-8	Endosulfan I	0.08	U
33213-65-9	Endosulfan II	0.08	U
1031-07-8	Endosulfan sulfate	0.08	U
72-20-8	Endrin	0.08	U
7421-93-4	Endrin aldehyde	0.08	U
53494-70-5	Endrin ketone	0.08	U
58-89-9	gamma-BHC (Lindane)	0.08	U
76-44-8	Heptachlor	0.08	U
1024-57-3	Heptachlor epoxide	0.08	U
72-43-5	Methoxychlor	0.08	U
8001-35-2	Toxaphene	2	U

NW
10/10/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 2
AOC-28-SW-NW

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod Ref No. _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SURFACE WATER Lab Sample Id: 10052118-002

Sample wt/vol: 1000 (g/mL): mL Lab File ID: 10052521.D

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SEPF Date Extracted: 05/24/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82657

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
309-00-2	Aldrin	0.04	U
319-84-6	alpha-BHC	0.04	U
319-85-7	beta-BHC	0.04	U
319-86-8	delta-BHC	0.08	U
5103-71-9	alpha-Chlordane	0.08	U
5103-74-2	gamma-Chlordane	0.08	U
72-54-8	4,4-DDD	0.08	U
72-55-9	4,4-DDE	0.08	U
50-29-3	4,4-DDT	0.08	U
60-57-1	Dieldrin	0.04	U
959-98-8	Endosulfan I	0.08	U
33213-65-9	Endosulfan II	0.08	U
1031-07-8	Endosulfan sulfate	0.08	U
72-20-8	Endrin	0.08	U
7421-93-4	Endrin aldehyde	0.08	U
53494-70-5	Endrin ketone	0.08	U
58-89-9	gamma-BHC (Lindane)	0.08	U
76-44-8	Heptachlor	0.08	U
1024-57-3	Heptachlor epoxide	0.08	U
72-43-5	Methoxychlor	0.08	U
8001-35-2	Toxaphene	2	U

kw
10/10/10

SW8081B

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SW-SE

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod Ref No. _____ SDG No : 10052118

Matrix (SOIL/SED/WATER): SURFACE WATER Lab Sample Id: 10052118-003

Sample wt/vol: 1000 (g/mL): mL Lab File ID: 10052523.D

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SEPF Date Extracted: 05/24/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82657

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
309-00-2	Aldrin	0.04	U
319-84-6	alpha-BHC	0.04	U
319-85-7	beta-BHC	0.04	U
319-86-8	delta-BHC	0.08	U
5103-71-9	alpha-Chlordane	0.08	U
5103-74-2	gamma-Chlordane	0.08	U
72-54-8	4,4-DDD	0.08	U
72-55-9	4,4-DDE	0.08	U
50-29-3	4,4-DDT	0.08	U
60-57-1	Dieldrin	0.04	U
959-98-8	Endosulfan I	0.08	U
33213-65-9	Endosulfan II	0.08	U
1031-07-8	Endosulfan sulfate	0.08	U
72-20-8	Endrin	0.08	U
7421-93-4	Endrin aldehyde	0.08	U
53494-70-5	Endrin ketone	0.08	U
58-89-9	gamma-BHC (Lindane)	0.08	U
76-44-8	Heptachlor	0.08	U
1024-57-3	Heptachlor epoxide	0.08	U
72-43-5	Methoxychlor	0.08	U
8001-35-2	Toxaphene	2	U

MW 10/10/10

SW8081B

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-28-SW-01

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No : 10052118

Matrix (SOIL/SED/WATER): SURFACE WATER Lab Sample Id: 10052118-004

Sample wt/vol: 1000 (g/mL): mL Lab File ID: 10052525.D

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SEPF Date Extracted: 05/24/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82657

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
309-00-2	Aldrin	0.04	U
319-84-6	alpha-BHC	0.04	U
319-85-7	beta-BHC	0.04	U
319-86-8	delta-BHC	0.08	U
5103-71-9	alpha-Chlordane	0.08	U
5103-74-2	gamma-Chlordane	0.08	U
72-54-8	4,4-DDD	0.08	U
72-55-9	4,4-DDE	0.08	U
50-29-3	4,4-DDT	0.08	U
60-57-1	Dieldrin	0.04	U
959-98-8	Endosulfan I	0.08	U
33213-65-9	Endosulfan II	0.08	U
1031-07-8	Endosulfan sulfate	0.08	U
72-20-8	Endrin	0.08	U
7421-93-4	Endrin aldehyde	0.08	U
53494-70-5	Endrin ketone	0.08	U
58-89-9	gamma-BHC (Lindane)	0.08	U
76-44-8	Heptachlor	0.08	U
1024-57-3	Heptachlor epoxide	0.08	U
72-43-5	Methoxychlor	0.08	U
8001-35-2	Toxaphene	2	U

NW 10/10/10

SW8081B

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-SED-01

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No : 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-005

Sample wt/vol: 10.28 (g/mL): g Lab File ID: 10052529.D

% Moisture: 38 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/24/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82656

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	31	U
72-55-9	4,4-DDE	31	U
50-29-3	4,4-DDT	31	U
309-00-2	Aldrin	31	U
319-84-6	alpha-BHC	31	U
5103-71-9	alpha-Chlordane	31	U
319-85-7	beta-BHC	31	U
319-86-8	delta-BHC	31	U
60-57-1	Dieldrin	31	U
959-98-8	Endosulfan I	31	U
33213-65-9	Endosulfan II	31	U
1031-07-8	Endosulfan sulfate	31	U
72-20-8	Endrin	31	U
7421-93-4	Endrin aldehyde	31	U
53494-70-5	Endrin ketone	31	U
58-89-9	gamma-BHC (Lindane)	31	U
5103-74-2	gamma-Chlordane	31	U
76-44-8	Heptachlor	31	U
1024-57-3	Heptachlor epoxide	31	U
72-43-5	Methoxychlor	31	U
8001-35-2	Toxaphene	310	U

10/10/10

SW8081B

6

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SED-SW MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-006

Sample wt/vol: 10.25 (g/mL): g Lab File ID: 10052532.D

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/24/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82655

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

NW
10/10/10

SW8081B

7

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SED-SE

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-007

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10052531.D

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/24/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82656

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	26	U
72-55-9	4,4-DDE	26	U
50-29-3	4,4-DDT	26	U
309-00-2	Aldrin	26	U
319-84-6	alpha-BHC	26	U
5103-71-9	alpha-Chlordane	26	U
319-85-7	beta-BHC	26	U
319-86-8	delta-BHC	26	U
60-57-1	Dieldrin	26	U
959-98-8	Endosulfan I	26	U
33213-65-9	Endosulfan II	26	U
1031-07-8	Endosulfan sulfate	26	U
72-20-8	Endrin	26	U
7421-93-4	Endrin aldehyde	26	U
53494-70-5	Endrin ketone	26	U
58-89-9	gamma-BHC (Lindane)	26	U
5103-74-2	gamma-Chlordane	26	U
76-44-8	Heptachlor	26	U
1024-57-3	Heptachlor epoxide	26	U
72-43-5	Methoxychlor	26	U
8001-35-2	Toxaphene	260	U

KW 10/10/10

SW8081B

8

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SED-NW

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-008

Sample wt/vol: 10.36 (g/mL): g Lab File ID: 10052533.D

% Moisture: 31 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/24/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82656

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	28	U
72-55-9	4,4-DDE	28	U
50-29-3	4,4-DDT	28	U
309-00-2	Aldrin	28	U
319-84-6	alpha-BHC	28	U
5103-71-9	alpha-Chlordane	28	U
319-85-7	beta-BHC	28	U
319-86-8	delta-BHC	28	U
60-57-1	Dieldrin	28	U
959-98-8	Endosulfan I	28	U
33213-65-9	Endosulfan II	28	U
1031-07-8	Endosulfan sulfate	28	U
72-20-8	Endrin	28	U
7421-93-4	Endrin aldehyde	28	U
53494-70-5	Endrin ketone	28	U
58-89-9	gamma-BHC (Lindane)	28	U
5103-74-2	gamma-Chlordane	28	U
76-44-8	Heptachlor	28	U
1024-57-3	Heptachlor epoxide	28	U
72-43-5	Methoxychlor	28	U
8001-35-2	Toxaphene	280	U

KW 10/10/10

SW8081B

9

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SW-NE

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SURFACE WATER Lab Sample Id: 10052118-020

Sample wt/vol: 1000 (g/mL): mL Lab File ID: 10052527.D

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SEPF Date Extracted: 05/24/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 05/25/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82657

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
309-00-2	Aldrin	0.04	U
319-84-6	alpha-BHC	0.04	U
319-85-7	beta-BHC	0.04	U
319-86-8	delta-BHC	0.08	U
5103-71-9	alpha-Chlordane	0.08	U
5103-74-2	gamma-Chlordane	0.08	U
72-54-8	4,4-DDD	0.08	U
72-55-9	4,4-DDE	0.08	U
50-29-3	4,4-DDT	0.08	U
60-57-1	Dieldrin	0.04	U
959-98-8	Endosulfan I	0.08	U
33213-65-9	Endosulfan II	0.08	U
1031-07-8	Endosulfan sulfate	0.08	U
72-20-8	Endrin	0.08	U
7421-93-4	Endrin aldehyde	0.08	U
53494-70-5	Endrin ketone	0.08	U
58-89-9	gamma-BHC (Lindane)	0.08	U
76-44-8	Heptachlor	0.08	U
1024-57-3	Heptachlor epoxide	0.08	U
72-43-5	Methoxychlor	0.08	U
8001-35-2	Toxaphene	2	U

KW 10/1/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SED-NE

10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No : 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-041

Sample wt/vol: 10.41 (g/mL): g Lab File ID: 10052534.D

% Moisture: 25 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/24/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82655

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	26	U
72-55-9	4,4-DDE	26	U
50-29-3	4,4-DDT	26	U
309-00-2	Aldrin	26	U
319-84-6	alpha-BHC	26	U
5103-71-9	alpha-Chlordane	26	U
319-85-7	beta-BHC	26	U
319-86-8	delta-BHC	26	U
60-57-1	Dieldrin	26	U
959-98-8	Endosulfan I	26	U
33213-65-9	Endosulfan II	26	U
1031-07-8	Endosulfan sulfate	26	U
72-20-8	Endrin	26	U
7421-93-4	Endrin aldehyde	26	U
53494-70-5	Endrin ketone	26	U
58-89-9	gamma-BHC (Lindane)	26	U
5103-74-2	gamma-Chlordane	26	U
76-44-8	Heptachlor	26	U
1024-57-3	Heptachlor epoxide	26	U
72-43-5	Methoxychlor	26	U
8001-35-2	Toxaphene	260	U

10/10/10

SW8081B

ENVIRONMENTAL
Data Services, Inc.

PCBs
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10052118

Client: ARGO Systems, Glen Burnie, MD Date: October 10, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-28-SW-SW	10052118-001	Water
1MS	AOC-28-SW-SWMS	10052118-001MS	Water
1MSD	AOC-28-SW-SWMSD	10052118-001MSD	Water
2	AOC-28-SW-NW	10052118-002	Water
3	AOC-28-SW-SE	10052118-003	Water
4	DUP-AOC-28-SW-01	10052118-004	Water
5	DUP-SED-01	10052118-005	Soil
6	AOC-28-SED-SW	10052118-006	Soil
6MS	AOC-28-SED-SWMS	10052118-006MS	Soil
6MSD	AOC-28-SED-SWMSD	10052118-006MSD	Soil
7	AOC-28-SED-SE	10052118-007	Soil
8	AOC-28-SED-NW	10052118-008	Soil
9	AOC-28-14	10052118-009	Soil
10	AOC-28-22	10052118-010	Soil
11	AOC-28-04	10052118-011	Soil
12	AOC-28-21	10052118-012	Soil
13	AOC-28-08	10052118-013	Soil
14	AOC-28-26	10052118-014	Soil
15	AOC-28-05	10052118-015	Soil
15MS	AOC-28-05MS	10052118-015MS	Soil
15MSD	AOC-28-05MSD	10052118-015MSD	Soil
16	AOC-28-25	10052118-016	Soil
17	AOC-28-18	10052118-017	Soil
18	AOC-28-30	10052118-018	Soil
19	AOC-28-13	10052118-019	Soil
20	AOC-28-SW-NE	10052118-020	Water
21	AOC-28-11	10052118-021	Soil
22	AOC-28-10	10052118-022	Soil
23	AOC-28-15	10052118-023	Soil
24	AOC-28-16	10052118-024	Soil
25	DUP-AOC-28-01	10052118-025	Soil
26	DUP-AOC-28-02	10052118-026	Soil
27	AOC-28-07	10052118-027	Soil
28	AOC-28-23	10052118-028	Soil
29	AOC-28-09	10052118-029	Soil
30	AOC-28-06	10052118-030	Soil

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
31	AOC-28-1	10052118-031	Soil
32	AOC-28-3	10052118-032	Soil
33	DUP-AOC-28-03	10052118-033	Soil
34	AOC-28-31	10052118-034	Soil
35	AOC-28-32	10052118-035	Soil
36	AOC-28-24	10052118-036	Soil
37	AOC-28-02	10052118-037	Soil
37MS	AOC-28-02MS	10052118-037MS	Soil
37MSD	AOC-28-02MSD	10052118-037MSD	Soil
38	AOC-28-12	10052118-038	Soil
39	AOC-28-17	10052118-039	Soil
40	DUP-AOC-28-04	10052118-040	Soil
41	AOC-28-SED-NE	10052118-041	Soil
42	EB-12	10052118-043	Water

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 7 days for water samples, 14 days for soil samples, and analyzed within 40 days for all samples.

Initial Calibration - The initial calibrations exhibited acceptable %RSD values.

Calibration Verification - The continuing calibrations exhibited acceptable %D values.

Surrogates - All samples exhibited acceptable surrogate recoveries except the following.

Sample ID	Surrogate	%R	Qualifier
3	TCX1	0%	J/R
	DCB1	0%	
8	DCB1	137%	None- ND
31	TCX1	99%	J/UJ

MS/MSD - The MS/MSD samples exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level ug/L	Qualifier	Affected Samples
EB-12	None- ND	-	-	-	-

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-28-SW-NW ug/L	DUP-AOC-28-SW-01 ug/L	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-28-SED-NW mg/kg	DUP-SED-01 mg/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-28-05 mg/kg	DUP-AOC-28-01 mg/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-28-13 mg/kg	DUP-AOC-28-02 mg/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-28-06 mg/kg	DUP-AOC-28-03 mg/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-28-11 mg/kg	DUP-AOC-28-04 mg/kg	RPD	Qualifier
None	ND	ND	-	-

Compound Identification - Retention times were acceptable and no further action was taken.

Compound Quantitation - No discrepancies were identified.

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SW-SW MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No. _____ SDG No : 10052118

Matrix (SOIL/SED/WATER): SURFACE WATER Lab Sample Id: 10052118-001

Sample wt/vol: 1000 (g/mL): mL Lab File ID: 10052515.D

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SEPF Date Extracted: 05/24/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82647

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	PCB-1016	0.5	U
11104-28-2	PCB-1221	0.5	U
11141-16-5	PCB-1232	0.5	U
53469-21-9	PCB-1242	0.5	U
12672-29-6	PCB-1248	0.5	U
11097-69-1	PCB-1254	0.5	U
11096-82-5	PCB-1260	0.5	U

CW 10/10/10

SW8082

2

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SW-NW

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod Ref No. _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SURFACE WATER Lab Sample Id: 10052118-002

Sample wt/vol: 1000 (g/mL): mL Lab File ID: 10052510.D

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SEPF Date Extracted: 05/24/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82648

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	PCB-1016	0.5	U
11104-28-2	PCB-1221	0.5	U
11141-16-5	PCB-1232	0.5	U
53469-21-9	PCB-1242	0.5	U
12672-29-6	PCB-1248	0.5	U
11097-69-1	PCB-1254	0.5	U
11096-82-5	PCB-1260	0.5	U

MW 10/10/10

SW8082

3

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SW-SE

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No : 10052118

Matrix (SOIL/SED/WATER): SURFACE WATER Lab Sample Id: 10052118-003

Sample wt/vol: 1000 (g/mL): mL Lab File ID: 10052514.D

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SEPF Date Extracted: 05/24/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82648

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	PCB-1016	0.5	~~U~~ R
11104-28-2	PCB-1221	0.5	~~U~~
11141-16-5	PCB-1232	0.5	~~U~~
53469-21-9	PCB-1242	0.5	~~U~~
12672-29-6	PCB-1248	0.5	~~U~~
11097-69-1	PCB-1254	0.5	~~U~~
11096-82-5	PCB-1260	0.5	~~U~~

LW
10/10/10

SW8082

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-28-SW-01

4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SURFACE WATER Lab Sample Id: 10052118-004

Sample wt/vol: 1000 (g/mL): mL Lab File ID: 10052516.D

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SEPF Date Extracted: 05/24/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82648

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	PCB-1016	0.5	U
11104-28-2	PCB-1221	0.5	U
11141-16-5	PCB-1232	0.5	U
53469-21-9	PCB-1242	0.5	U
12672-29-6	PCB-1248	0.5	U
11097-69-1	PCB-1254	0.5	U
11096-82-5	PCB-1260	0.5	U

dw
10/10/10

SW8082

5

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-SED-01

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-005

Sample wt/vol: 10.28 (g/mL): g Lab File ID: 10052614.D

% Moisture: 38 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/25/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82669

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.2	U
11104-28-2	PCB-1221	0.2	U
11141-16-5	PCB-1232	0.2	U
53469-21-9	PCB-1242	0.2	U
12672-29-6	PCB-1248	0.2	U
11097-69-1	PCB-1254	0.2	U
11096-82-5	PCB-1260	0.2	U

MW
10/10/10

SW8082

6

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SED-SW MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-006

Sample wt/vol: 10.25 (g/mL): g Lab File ID: 10052613.D

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/25/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: ___ _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82668

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

MW
6/10/10

SW8082

7

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SED-SE

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No : 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-007

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10052615.D

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/25/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82668

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

NW
10/10/10

SW8082

8

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SED-NW

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-008

Sample wt/vol: 10.36 (g/mL): g Lab File ID: 10052616.D

% Moisture: 31 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/25/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82669

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

LW
10/10/10

SW8082

9

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-14

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-009

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10052617.D

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/25/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82668

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

lw
10/10/10

SW8082

10

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-22

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No : 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-010

Sample wt/vol: 10.29 (g/mL): g Lab File ID: 10052618.D

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/25/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82669

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

KW
10/10/10

SW8082

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-04

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-011

Sample wt/vol: 10.27 (g/mL): g Lab File ID: 10052619.D

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction: (Type) SONC Date Extracted: 05/25/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 05/26/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82668

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

lw
10/10/10

SW8082

12

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-21

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No : 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-012

Sample wt/vol: 10.38 (g/mL): g Lab File ID: 10052620.D

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/25/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82669

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

nw 10/1/10

SW8082

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-08

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-013

Sample wt/vol: 10.34 (g/mL): g Lab File ID: 10052621.D

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/25/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82668

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

kw
10/10/10

14

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-26

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod Ref No. _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-014

Sample wt/vol: 10.25 (g/mL): g Lab File ID: 10052622.D

% Moisture: 28 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/25/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82669

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

RW
10/10/10

15

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-05 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No : 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-015

Sample wt/vol: 10.41 (g/mL): g Lab File ID: 10052713.D

% Moisture: 32 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/26/2010

Concentrated Extract Volume: 10 (μ L) Date Analyzed: 05/27/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82706

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0 1	U
11096-82-5	PCB-1260	0.1	U

NW
10/10/10

SW8082

16

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-25

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod Ref No _____ SDG No : 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-016

Sample wt/vol: 10.36 (g/mL): g Lab File ID: 10052623.D

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/25/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82668

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

MW 10/10/10

SW8082

17

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-18

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-017

Sample wt/vol: 10.29 (g/mL): g Lab File ID: 10052624.D

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/25/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82669

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

MW
10/10/10

SW8082

18

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-30

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-018

Sample wt/vol: 10.43 (g/mL): g Lab File ID: 10052625.D

% Moisture: 35 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/25/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82668

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

lw
10/10/10

SW8082

19

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-13

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No : 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-019

Sample wt/vol: 10.22 (g/mL): g Lab File ID: 10052626.D

% Moisture: 23 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/25/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82669

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

AW
10/10/10

SW8082

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SW-NE

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SURFACE WATER Lab Sample Id: 10052118-020

Sample wt/vol: 1000 (g/mL): mL Lab File ID: 10052517.D

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SEPF Date Extracted: 05/24/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82647

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	PCB-1016	0.5	U
11104-28-2	PCB-1221	0.5	U
11141-16-5	PCB-1232	0.5	U
53469-21-9	PCB-1242	0.5	U
12672-29-6	PCB-1248	0.5	U
11097-69-1	PCB-1254	0.5	U
11096-82-5	PCB-1260	0.5	U

MW
10/10/10

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-11

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-021

Sample wt/vol: 10.35 (g/mL): g Lab File ID: 10052627.D

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/25/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82668

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

LW
10/10/10

22

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod Ref No _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-022

Sample wt/vol: 10.27 (g/mL): g Lab File ID: 10052628.D

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/25/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82669

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

KW
10/10/10

SW8082

23

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-15

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No : 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-023

Sample wt/vol: 10.42 (g/mL): g Lab File ID: 10052629.D

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/25/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82668

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

MW
10/10/10

SW8082

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-16

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-024

Sample wt/vol: 10.33 (g/mL): g Lab File ID: 10052630.D

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/25/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82669

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

MW
10/10/10

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-28-01

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-025

Sample wt/vol: 10.19 (g/mL): g Lab File ID: 10052631.D

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/25/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82668

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0 1	U
11096-82-5	PCB-1260	0.1	U

MW
10/10/10

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-28-02

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. ___ _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-026

Sample wt/vol: 10.24 (g/mL): g Lab File ID: 10052704.D

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction: (Type) SONC Date Extracted: 05/26/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 05/27/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82707

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

MW
10/10/10

27

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-07

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-027

Sample wt/vol: 10.31 (g/mL): g Lab File ID: 10052706.D

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/26/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/27/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82707

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

MW
10/10/10

SW8082

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-23

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-028

Sample wt/vol: 10.34 (g/mL): g Lab File ID: 10052708.D

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/26/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/27/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82707

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0 1	U
11096-82-5	PCB-1260	0.1	U

lw
10/10/10

2

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-09

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-029

Sample wt/vol: 10.39 (g/mL): g Lab File ID: 10052710.D

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/26/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/27/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82707

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

lw
10/10/10

SW8082

30

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-06

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-030

Sample wt/vol: 10.18 (g/mL): g Lab File ID: 10052712.D

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/26/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/27/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82707

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

MW
10/10/10

SW8082

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No. _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-031

Sample wt/vol: 10.26 (g/mL): g Lab File ID: 10052714.D

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction: (Type) SONC Date Extracted: 05/26/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 05/27/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82707

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

lw
10/10/10

32

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-3

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No. _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-032

Sample wt/vol: 10.45 (g/mL): g Lab File ID: 10052715.D

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction: (Type) SONC Date Extracted: 05/26/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 05/27/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82706

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

UJ

MW 10/10/10

SW8082

33

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-28-03

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-033

Sample wt/vol: 10.42 (g/mL): g Lab File ID: 10052716.D

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/26/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/27/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82707

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

MW
10/10/10

SW8082

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-31

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No : 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-034

Sample wt/vol: 10.37 (g/mL): g Lab File ID: 10052717.D

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/26/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/27/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82706

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

MW
10/10/10

35

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-32

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No. _____ SDG No: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-035

Sample wt/vol: 10.25 (g/mL): g Lab File ID: 10052718.D

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction: (Type) SONC Date Extracted: 05/26/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 05/27/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82707

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

MW
6/10/10

SW8082

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-24

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-036

Sample wt/vol: 10.33 (g/mL): g Lab File ID: 10052719.D

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/26/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/27/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82706

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

lw
10/1/10

37

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-02 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-037

Sample wt/vol: 10.19 (g/mL): g Lab File ID: 10052817.D

% Moisture: 23 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/27/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/28/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82724

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

MW
10/10/10

SW8082

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1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-12

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-038

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10052810.D

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction: (Type) SONC Date Extracted: 05/27/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 05/28/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82725

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

kw
10/15/10

SW8082

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-17

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No : 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-039

Sample wt/vol: 10.35 (g/mL): g Lab File ID: 10052812.D

% Moisture: 15 Decanted: (Y/N) CLEAR Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/27/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/28/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82725

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

MW
10/10/10

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-28-04

Lab Name: PHASE SEPARATION SCIENCE
Contract: 1462309
Lab Code: PHASE
Case No : _____
Mod. Ref No. _____
SDG No.: 10052118
Matrix (SOIL/SED/WATER): SOIL
Lab Sample Id: 10052118-040
Sample wt/vol: 10.28 (g/mL): g
Lab File ID: 10052814.D
% Moisture: 29
Decanted: (Y/N) N
Date Received: 05/21/2010
Extraction : (Type) SONC
Date Extracted: 05/27/2010
Concentrated Extract Volume: 10 (µ L)
Date Analyzed: 05/28/2010
Injection Volume: _____ (µ L)
GPC Factor: 1.000
Dilution Factor: 1.0
GPC Cleanup (Y/N): N
pH: _____
Sulfur Cleanup (Y/N): N
Acid Cleanup (Y/N): N

82725

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

MW
10/10/10

41

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SED-NE

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052118-041

Sample wt/vol: 10.41 (g/mL): g Lab File ID: 10052632.D

% Moisture: 25 Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SONC Date Extracted: 05/25/2010

Concentrated Extract Volume: 10 (μ L) Date Analyzed: 05/26/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82669

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

Pew
10/10/10

SW8082

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
EB-12

42

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10052118

Matrix (SOIL/SED/WATER): SURFACE WATER Lab Sample Id: 10052118-043

Sample wt/vol: 1000 (g/mL): mL Lab File ID: 10052518.D

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2010

Extraction : (Type) SEPF Date Extracted: 05/24/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82648

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	PCB-1016	0.5	U
11104-28-2	PCB-1221	0.5	U
11141-16-5	PCB-1232	0.5	U
53469-21-9	PCB-1242	0.5	U
12672-29-6	PCB-1248	0.5	U
11097-69-1	PCB-1254	0.5	U
11096-82-5	PCB-1260	0.5	U

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SW8082

ENVIRONMENTAL
Data Services, Inc.

METALS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10052118

Client: ARGO Systems, Glen Burnie, MD Date: October 10, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-28-SW-SW	10052118-001	Water
1MS	AOC-28-SW-SWMS	10052118-001MS	Water
1MSD	AOC-28-SW-SWMSD	10052118-001MSD	Water
2	AOC-28-SW-NW	10052118-002	Water
3	AOC-28-SW-SE	10052118-003	Water
4	DUP-AOC-28-SW-01	10052118-004	Water
5	DUP-SED-01	10052118-005	Soil
6	AOC-28-SED-SW	10052118-006	Soil
6MS	AOC-28-SED-SWMS	10052118-006MS	Soil
6MSD	AOC-28-SED-SWMSD	10052118-006MSD	Soil
7	AOC-28-SED-SE	10052118-007	Soil
8	AOC-28-SED-NW	10052118-008	Soil
9*	AOC-28-14	10052118-009	Soil
10*	AOC-28-22	10052118-010	Soil
11*	AOC-28-04	10052118-011	Soil
12*	AOC-28-21	10052118-012	Soil
13*	AOC-28-08	10052118-013	Soil
14*	AOC-28-26	10052118-014	Soil
15*	AOC-28-05	10052118-015	Soil
15MS*	AOC-28-05MS	10052118-015MS	Soil
15MSD*	AOC-28-05MSD	10052118-015MSD	Soil
16*	AOC-28-25	10052118-016	Soil
17*	AOC-28-18	10052118-017	Soil
18*	AOC-28-30	10052118-018	Soil
19*	AOC-28-13	10052118-019	Soil
20	AOC-28-SW-NE	10052118-020	Water
21*	AOC-28-11	10052118-021	Soil
22*	AOC-28-10	10052118-022	Soil
23*	AOC-28-15	10052118-023	Soil
24*	AOC-28-16	10052118-024	Soil
25*	DUP-AOC-28-01	10052118-025	Soil
26*	DUP-AOC-28-02	10052118-026	Soil
27*	AOC-28-07	10052118-027	Soil
28*	AOC-28-23	10052118-028	Soil
29*	AOC-28-09	10052118-029	Soil

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
30*	AOC-28-06	10052118-030	Soil
31*	AOC-28-1	10052118-031	Soil
32*	AOC-28-3	10052118-032	Soil
33*	DUP-AOC-28-03	10052118-033	Soil
34*	AOC-28-31	10052118-034	Soil
35*	AOC-28-32	10052118-035	Soil
36*	AOC-28-24	10052118-036	Soil
37*	AOC-28-02	10052118-037	Soil
37MS*	AOC-28-02MS	10052118-037MS	Soil
37MSD*	AOC-28-02MSD	10052118-037MSD	Soil
38*	AOC-28-12	10052118-038	Soil
39*	AOC-28-17	10052118-039	Soil
40*	DUP-AOC-28-04	10052118-040	Soil
41	AOC-28-SED-NE	10052118-041	Soil
42	EB-12	10052118-043	Water
43**	AOC-3-49/0-2	10052118-045	Soil
44**	AOC-3-39/0-2	10052118-046	Soil
44MS**	AOC-3-39/0-2MS	10052118-046MS	Soil
44MSD**	AOC-3-39/0-2MSD	10052118-046MSD	Soil
45**	AOC-3-50/0-2	10052118-047	Soil
46	AOC-3-23/0-2	10052118-048	Soil
47**	AOC-3-46/0-2	10052118-049	Soil
48	AOC-3-11/0-2	10052118-050	Soil
49**	AOC-3-4/0-2	10052118-051	Soil
50	AOC-3-16/0-2	10052118-052	Soil
51	AOC-3-48/0-2	10052118-053	Soil
52**	AOC-3-21/0-2	10052118-054	Soil
53**	DUP-AOC-3-10	10052118-055	Soil
54	AOC-3-42/0-2	10052118-056	Soil
55	AOC-3-38/0-2	10052118-057	Soil
56†	R-50/2-4	10052118-058	Soil
57*	NR-11/2-4	10052118-059	Soil
58††	NR-5/2-4	10052118-060	Soil
59#	R-109/2-4	10052118-061	Soil
60#	NR-44/2-4	10052118-062	Soil
61†	NR-43/2-4	10052118-063	Soil
62†	NR-8/2-4	10052118-064	Soil
63#†	R-33/2-4	10052118-065	Soil
64††	1A-39/2-4	10052118-066	Soil
65	AOC-3-41/0-2	10052118-067	Soil
66	DUP-AOC-3-11	10052118-068	Soil
67	AOC-3-18/0-2	10052118-069	Soil
68**	AOC-3-34/0-2	10052118-070	Soil
69	DUP-AOC-3-12	10052118-071	Soil
70	AOC-3-30/0-2	10052118-072	Soil
71	AOC-3-13/0-2	10052118-073	Soil
72	AOC-3-37/0-2	10052118-074	Soil
73**	AOC-3-20/0-2	10052118-075	Soil
74	AOC-3-28/0-2	10052118-076	Soil
75	AOC-3-25/0-2	10052118-077	Soil

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
76	AOC-3-36/0-2	10052118-078	Soil
77	AOC-3-40/0-2	10052118-079	Soil
77MS	AOC-3-40/0-2MS	10052118-079MS	Soil
77MSD	AOC-3-40/0-2MSD	10052118-079MSD	Soil

* - Mercury only ** - Arsenic & Lead † - Manganese & Vanadium # - Lead only
†† - Chromium, Manganese & Vanadium #† - Manganese, Vanadium & Lead

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable except the following.

CCV ID	Compound	%R	Qualifier	Affected Samples
Batch 82629	Beryllium	123%	None	All ND
	Silver	87%	L/UL	1-4, 20, 42
Batch 82639	Beryllium	88%	L/UL	5-8
Batch 82674	Selenium	0%	L/R	41, 46, 48, 50, 51, 54

Method and Calibration Blanks - The method blanks and continuing calibration blanks exhibited the following contamination.

Blank ID	Compound	Conc. mg/kg	Action Level mg/kg	Qualifier	Affected Samples
Batch 82629	Arsenic	0.6 (ug/L)	3.0 (ug/L)	B	1-4, 20, 42
	Copper	2.18 (ug/L)	10.90 (ug/L)	B	
Batch 82674	Zinc	5.095	25.475	B	41, 46, 48, 50, 51, 54
Batch 82732	Zinc	7.655	38.275	B	55, 65-67, 71, 72, 77

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level mg/kg	Qualifier	Affected Samples
EB-12	Chromium	2.6	6.5	None	All > 5X

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier	Affected Samples
1 (82629)	Beryllium	127%/127%/OK	None	All ND or Already Qualified
	Mercury	133%/127%/OK	None	All ND
6 (82639)	Zinc	72%/OK/33%	J/UL	5, 6, 7
46 (82647)	Antimony	63%/60%/OK	L/UL	41, 46, 48, 50, 51, 54
	Copper	156%/192%/OK	K	41, 46, 48, 50, 51, 54
	Lead	OK/140%/OK	K	41, 43, 46, 48, 50, 51, 54
	Nickel	183%/197%/OK	K	41, 46, 48, 50, 51, 54
	Zinc	237%/232%/OK	None	Already Qualified
77 (82732)	Antimony	40%/34%/OK	L/UL	55, 65, 66, 67, 69, 70, 71, 72, 77
	Manganese	1111%/1425%/OK	K	56, 58, 61, 62, 63, 64
	Nickel	31%/27%/OK	None	See ICP SD
	Vanadium	255%/304%/OK	K	56, 58, 61, 62, 63, 64

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values except the following.

ICP Sample ID	Compound	%D	Qualifier	Affected Samples
77 (82732)	Arsenic	26%	J	55, 65, 66, 67, 69-72, 77
	Nickel	12%		

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-28-SW-NW ug/L	DUP-AOC-28-SW-01 ug/L	RPD	Qualifier
Chromium	1.0 U	0.5	NC	None
Copper	1.0	1.2	18%	None
Nickel	2.2	3.9	56%	None

Compound	AOC-28-SED-NW mg/kg	DUP-SED-01 mg/kg	RPD	Qualifier
Arsenic	3.3	3.6	9%	None
Chromium	21	21	0%	None
Copper	24	18	29%	None
Lead	9.1	9.5	4%	None
Nickel	11	12	9%	None
Zinc	38	34	11%	None

Compound	AOC-28-05 mg/kg	DUP-AOC-28-01 mg/kg	RPD	Qualifier
Mercury	0.10	0.14	33%	None

Compound	AOC-28-13 mg/kg	DUP-AOC-28-02 mg/kg	RPD	Qualifier
Mercury	0.08	0.11 U	NC	None

Compound	AOC-28-06 mg/kg	DUP-AOC-28-03 mg/kg	RPD	Qualifier
Mercury	0.10	0.10	0%	None

Compound	AOC-28-11 mg/kg	DUP-AOC-28-04 mg/kg	RPD	Qualifier
Mercury	0.09	0.09	0%	None

Compound	AOC-3-41/0-2 mg/kg	DUP-AOC-3-11 mg/kg	RPD	Qualifier
Arsenic	5.2	5.4	4%	None
Chromium	21	24	13%	None
Copper	10	12	18%	None
Lead	11	13	17%	None
Mercury	0.05	0.05	0%	None
Nickel	11	22	67%	None

Compound	AOC-3-18/0-2 mg/kg	DUP-AOC-3-12 mg/kg	RPD	Qualifier
Arsenic	2.3	2.5	8%	None
Chromium	11	16	37%	None
Copper	3.2	12	116%	J
Lead	7.2	32	127%	J
Nickel	2.5	13	135%	Already Qualified
Zinc	6.5 B	41	NC	None

Compound Quantitation - No discrepancies were identified.

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-SW-SW MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052118

Matrix (soil/water): WATER Lab Sample ID: 10052118-001

Level (low/med): LOW Date Received: 05/21/2010

% Solids: _____ Batch #: 82629

Concentration Units (ug/ L or mg/kg dry weight) UG/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	1.0	U		MS	
7440-38-2	Arsenic	0.7	~~J~~		MS	B
7440-41-7	Beryllium	0.5	U	~~N~~	MS	
7440-43-9	Cadmium	1.0	U		MS	
7440-47-3	Chromium	1.0	U		MS	
7440-50-8	Copper	1.0			MS	
7439-92-1	Lead	1.0	U		MS	
7439-97-6	Mercury	0.20	U		MS	
7440-02-0	Nickel	1.3			MS	
7782-49-2	Selenium	1.0	U		MS	
7440-22-4	Silver	1.0	~~U~~		MS	UL
7440-28-0	Thallium	0.5	J		MS	
7440-66-6	Zinc	20	U		MS	

Color Before BLACK Clarity Before _____ Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments: _____

MW 10/10/10

2

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-SW-NW

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052118

Matrix (soil/water): WATER Lab Sample ID: 10052118-002

Level (low/med): LOW Date Received: 05/21/2010

% Solids: _____ Batch #: 82629

Concentration Units (ug/ L or mg/kg dry weight) UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	1.0	U		MS
7440-38-2	Arsenic	0.7	~~U~~		MS B
7440-41-7	Beryllium	0.5	U	~~U~~	MS
7440-43-9	Cadmium	1.0	U		MS
7440-47-3	Chromium	1.0	U		MS
7440-50-8	Copper	1.0			MS
7439-92-1	Lead	1.0	U		MS
7439-97-6	Mercury	0.20	U		MS
7440-02-0	Nickel	2.2			MS
7782-49-2	Selenium	1.0	U		MS
7440-22-4	Silver	1.0	~~U~~		MS UL
7440-28-0	Thallium	1.0	U		MS
7440-66-6	Zinc	20	U		MS

Color Before BLACK Clarity Before _____ Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments: _____

NW
10/10/10

FORM IA - IN SW6020

3

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-SW-SE

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052118

Matrix (soil/water): WATER Lab Sample ID: 10052118-003

Level (low/med): LOW Date Received: 05/21/2010

% Solids: _____ Batch #: 82629

Concentration Units (ug/ L or mg/kg dry weight) UG/L

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	1.0	U		MS	
7440-38-2	Arsenic	0.7	~~U~~		MS	B
7440-41-7	Beryllium	0.5	U	~~U~~	MS	
7440-43-9	Cadmium	1.0	U		MS	
7440-47-3	Chromium	1.0	U		MS	
7440-50-8	Copper	1.3			MS	
7439-92-1	Lead	1.0	U		MS	
7439-97-6	Mercury	0.20	U		MS	
7440-02-0	Nickel	1.9			MS	
7782-49-2	Selenium	1.0	U		MS	
7440-22-4	Silver	1.0	~~U~~		MS	UL
7440-28-0	Thallium	1.0	U		MS	
7440-66-6	Zinc	20	U		MS	

Color Before BLACK Clarity Before _____ Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments: _____

NW 10/10/10

4

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-AOC-28-SW-01

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052118

Matrix (soil/water): WATER Lab Sample ID: 10052118-004

Level (low/med): LOW Date Received: 05/21/2010

% Solids: _____ Batch #: 82629

Concentration Units (ug/ L or mg/kg dry weight) UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	1.0	U		MS
7440-38-2	Arsenic	0.7	~~J~~		MS B
7440-41-7	Beryllium	0.5	U	~~N~~	MS
7440-43-9	Cadmium	1.0	U		MS
7440-47-3	Chromium	0.5	J		MS
7440-50-8	Copper	1.2			MS
7439-92-1	Lead	1.0	U		MS
7439-97-6	Mercury	0.20	U		MS
7440-02-0	Nickel	3.9			MS
7782-49-2	Selenium	1.0	U		MS
7440-22-4	Silver	1.0	~~U~~		MS UL
7440-28-0	Thallium	1.0	U		MS
7440-66-6	Zinc	20	U		MS

Color Before BLACK Clarity Before _____ Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments: _____

NW
10/10/10

5

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-SED-01

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-005

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 62 Batch #: 82639

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.8	U		MS	
7440-38-2	Arsenic	3.6			MS	
7440-41-7	Beryllium	3.8	~~U~~		MS	UL
7440-43-9	Cadmium	3.8	U		MS	
7440-47-3	Chromium	21		~~N~~	MS	
7440-50-8	Copper	18			MS	
7439-92-1	Lead	9.5			MS	
7439-97-6	Mercury	0.15	U		MS	
7440-02-0	Nickel	12			MS	
7782-49-2	Selenium	3.8	U		MS	
7440-22-4	Silver	3.8	U		MS	
7440-28-0	Thallium	0.8	U		MS	
7440-66-6	Zinc	34			MS	J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

6

EPA SAMPLE NO.

AOC-28-SED-SW MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-006

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 82 Batch #: 82639

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.0	U		MS	
7440-38-2	Arsenic	4.8			MS	
7440-41-7	Beryllium	3.0	~~U~~		MS	UL
7440-43-9	Cadmium	3.0	U		MS	
7440-47-3	Chromium	130		~~N~~	MS	
7440-50-8	Copper	8.3			MS	
7439-92-1	Lead	7.3			MS	
7439-97-6	Mercury	0.12	U		MS	
7440-02-0	Nickel	8.0			MS	
7782-49-2	Selenium	3.0	U		MS	
7440-22-4	Silver	3.0	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	17			MS	J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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10/10/10

FORM IA - IN SW6020

7

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-SED-SE

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No : 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-007

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 76 Batch #: 82639

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.2	U		MS	
7440-38-2	Arsenic	3.7			MS	
7440-41-7	Beryllium	2.2	~~U~~		MS	UL
7440-43-9	Cadmium	2.2	U		MS	
7440-47-3	Chromium	12		~~N~~	MS	
7440-50-8	Copper	11			MS	
7439-92-1	Lead	15			MS	
7439-97-6	Mercury	0.09	U		MS	
7440-02-0	Nickel	17			MS	
7782-49-2	Selenium	2.2	U		MS	
7440-22-4	Silver	2.2	U		MS	
7440-28-0	Thallium	0.4	U		MS	
7440-66-6	Zinc	81			MS	J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

KEJ
10/10/10

FORM IA - IN SW6020

8

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SED-NW

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-008

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 69 Batch #: 82639

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.1	U		MS	
7440-38-2	Arsenic	3.3			MS	
7440-41-7	Beryllium	3.1	~~U~~		MS	UL
7440-43-9	Cadmium	3.1	U		MS	
7440-47-3	Chromium	21		~~N~~	MS	
7440-50-8	Copper	24			MS	
7439-92-1	Lead	9.1			MS	
7439-97-6	Mercury	0.12	U		MS	
7440-02-0	Nickel	11			MS	
7782-49-2	Selenium	3.1	U		MS	
7440-22-4	Silver	3.1	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	38			MS	J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
10/10/10

9

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-14

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-009

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 79 Batch #: 82639

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.10	U		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

KW
10/10/10

FORM IA - IN SW6020

10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-22

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-010

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 79 Batch #: 82639

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.10	U		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
10/10/10

FORM IA - IN SW6020

11

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-04

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-011

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 79 Batch #: 82639

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.14			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
10/10/10

FORM IA - IN SW6020

12

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-21

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-012

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 76 Batch #: 82639

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.12	U		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
10/10/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-08

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-013

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 89 Batch #: 82639

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.11	U		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

LW
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-26

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-014

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 72 Batch #: 82667

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.15			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-05 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-015

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 68 Batch #: 82667

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.10	J		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

REV
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-25

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-016

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 76 Batch #: 82667

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.08	J		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

AW
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-18

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-017

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 80 Batch #: 82667

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.06	J		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

AW
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-30

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-018

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 65 Batch #: 82667

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.07	J		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

lw 10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-13

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118
Matrix (soil/water): SOIL Lab Sample ID: 10052118-019
Level (low/med): LOW Date Received: 05/21/2010
% Solids: 77 Batch #: 82667

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.08	J		MS

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

lw 10/10/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SW-NE

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052118

Matrix (soil/water): WATER Lab Sample ID: 10052118-020

Level (low/med): LOW Date Received: 05/21/2010

% Solids: _____ Batch #: 82629

Concentration Units (ug/ L or mg/kg dry weight) UG/L

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	1.0	U		MS	
7440-38-2	Arsenic	0.8	~~U~~		MS	B
7440-41-7	Beryllium	0.5	U	~~N~~	MS	
7440-43-9	Cadmium	1.0	U		MS	
7440-47-3	Chromium	1.0	U		MS	
7440-50-8	Copper	1.0			MS	B
7439-92-1	Lead	1.0	U		MS	
7439-97-6	Mercury	0.20	U		MS	
7440-02-0	Nickel	2.0			MS	
7782-49-2	Selenium	1.0	U		MS	
7440-22-4	Silver	1.0	~~U~~		MS	UL
7440-28-0	Thallium	1.0	U		MS	
7440-66-6	Zinc	20	U		MS	

Color Before BLACK Clarity Before _____ Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments: _____

RW
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-11

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-021

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 80 Batch #: 82667

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.09	J		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

lw 10/10/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-022

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 83 Batch #: 82667

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.09	U		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

dw 10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-15

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-023

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 76 Batch #: 82667

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.12	U		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Rew 10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-16

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-024

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 80 Batch #: 82667

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.10	J		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-28-01

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-025

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 76 Batch #: 82667

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.14			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

lew
10/10/10

26

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-AOC-28-02

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-026

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 80 Batch #: 82667

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.11	U		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

lw
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-07

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052118
Matrix (soil/water): SOIL Lab Sample ID: 10052118-027
Level (low/med): LOW Date Received: 05/21/2010
% Solids: 87 Batch #: 82667

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.07	J		MS

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

lew
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-23

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10052118
Matrix (soil/water): SOIL Lab Sample ID: 10052118-028
Level (low/med): LOW Date Received: 05/21/2010
% Solids: 79 Batch #: 82667

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.22			MS

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

NW
6/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-09

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-029

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 86 Batch #: 82667

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.10	U		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
10/10/10

30

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-06

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-030

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 89 Batch #: 82667

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.10			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

10/10/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-031

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 83 Batch #: 82667

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.13			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 10/1/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-3

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118
Matrix (soil/water): SOIL Lab Sample ID: 10052118-032
Level (low/med): LOW Date Received: 05/21/2010
% Solids: 91 Batch #: 82667

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.04	J		MS

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

MW
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-AOC-28-03

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-033

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 85 Batch #: 82667

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.10	J		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
10/10/10

34

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-31

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-034

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 79 Batch #: 82674

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.10	U		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
10/1/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-32

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118
Matrix (soil/water): SOIL Lab Sample ID: 10052118-035
Level (low/med): LOW Date Received: 05/21/2010
% Solids: 76 Batch #: 82674

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.06	J		MS

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

NW
10/10/10

36

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-24

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-036

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 84 Batch #: 82674

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	1.2			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

JCW
10/10/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-02 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-037

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 77 Batch #: 82674

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.11	J		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

UW
10/1/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-12

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-038

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 78 Batch #: 82674

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.12	U		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-17

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-039

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 85 Batch #: 82674

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.10	U		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-28-04

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118
Matrix (soil/water): SOIL Lab Sample ID: 10052118-040
Level (low/med): LOW Date Received: 05/21/2010
% Solids: 71 Batch #: 82674

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.09	J		MS

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

MW
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SED-NE

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No.: 10052118
Matrix (soil/water): SOIL Lab Sample ID: 10052118-041
Level (low/med): LOW Date Received: 05/21/2010
% Solids: 75 Batch #: 82674

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.8	~~U~~		MS	UL
7440-38-2	Arsenic	3.1			MS	
7440-41-7	Beryllium	2.8	U		MS	
7440-43-9	Cadmium	2.8	U		MS	
7440-47-3	Chromium	20			MS	
7440-50-8	Copper	11			MS	K
7439-92-1	Lead	7.7			MS	K
7439-97-6	Mercury	0.11	U		MS	
7440-02-0	Nickel	8.0			MS	K
7782-49-2	Selenium	2.8	~~U~~		MS	R
7440-22-4	Silver	2.8	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	26			MS	B

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

NW
10/10/10

42

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
EB-12

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): WATER Lab Sample ID: 10052118-043

Level (low/med): LOW Date Received: 05/21/2010

% Solids: _____ Batch #: 82629

Concentration Units (ug/ L or mg/kg dry weight) UG/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	1.0	U		MS	
7440-38-2	Arsenic	1.0			MS	B
7440-41-7	Beryllium	0.5	U	~~N~~	MS	
7440-43-9	Cadmium	1.0	U		MS	
7440-47-3	Chromium	2.6			MS	
7440-50-8	Copper	0.7			MS	B
7439-92-1	Lead	1.0	U		MS	
7439-97-6	Mercury	0.20	U		MS	
7440-02-0	Nickel	1.0	U		MS	
7782-49-2	Selenium	1.0	U		MS	
7440-22-4	Silver	1.0	~~U~~		MS	UL
7440-28-0	Thallium	1.0	U		MS	
7440-66-6	Zinc	20	U		MS	

Color Before BLACK Clarity Before _____ Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments: _____

KW
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-49/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118
Matrix (soil/water): SOIL Lab Sample ID: 10052118-045
Level (low/med): LOW Date Received: 05/21/2010
% Solids: 88 Batch #: 82674

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.8			MS
7439-92-1	Lead	14			MS K

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

KW
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-39/0-2 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-046

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 89 Batch #: 82702

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.4			MS
7439-92-1	Lead	15		N	MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

fw 10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-50/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No.: 10052118
Matrix (soil/water): SOIL Lab Sample ID: 10052118-047
Level (low/med): LOW Date Received: 05/21/2010
% Solids: 88 Batch #: 82702

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.9			MS
7439-92-1	Lead	18		N	MS

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

MW
10/10/10

46

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-3-23/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-048

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 89 Batch #: 82674

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	1.9	~~U~~		MS	UL
7440-38-2	Arsenic	5.4			MS	
7440-41-7	Beryllium	1.9	U		MS	
7440-43-9	Cadmium	1.9	U		MS	
7440-47-3	Chromium	18			MS	
7440-50-8	Copper	5.6			MS	K
7439-92-1	Lead	8.2			MS	K
7439-97-6	Mercury	0.08	U		MS	
7440-02-0	Nickel	3.5			MS	K
7782-49-2	Selenium	1.9	~~U~~		MS	R
7440-22-4	Silver	1.9	U		MS	
7440-28-0	Thallium	0.4	U		MS	
7440-66-6	Zinc	8.6			MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 10/10/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-46/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-049

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 92 Batch #: 82702

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.9			MS
7439-92-1	Lead	9.3		N	MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-11/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-050

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 89 Batch #: 82674

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.4	~~U~~		MS	UL
7440-38-2	Arsenic	5.6			MS	
7440-41-7	Beryllium	2.4	U		MS	
7440-43-9	Cadmium	2.4	U		MS	
7440-47-3	Chromium	23			MS	
7440-50-8	Copper	7.3			MS	K
7439-92-1	Lead	9.8			MS	K
7439-97-6	Mercury	0.10	U		MS	
7440-02-0	Nickel	4.7			MS	K
7782-49-2	Selenium	2.4	~~U~~		MS	R
7440-22-4	Silver	2.4	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	16			MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-4/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118
Matrix (soil/water): SOIL Lab Sample ID: 10052118-051
Level (low/med): LOW Date Received: 05/21/2010
% Solids: 88 Batch #: 82702

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.9			MS
7439-92-1	Lead	16		N	MS

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

LW
10/10/10

50

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-3-16/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-052

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 95 Batch #: 82674

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.2	~~U~~		MS	UL
7440-38-2	Arsenic	3.0			MS	
7440-41-7	Beryllium	2.2	U		MS	
7440-43-9	Cadmium	2.2	U		MS	
7440-47-3	Chromium	9.9			MS	
7440-50-8	Copper	3.0			MS	K
7439-92-1	Lead	13			MS	K
7439-97-6	Mercury	0.09	U		MS	
7440-02-0	Nickel	2.1	J		MS	K
7782-49-2	Selenium	2.2	~~U~~		MS	R
7440-22-4	Silver	2.2	U		MS	
7440-28-0	Thallium	0.4	U		MS	
7440-66-6	Zinc	5.8	~~U~~		MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
10/10/10

51

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-48/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No : 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-053

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 93 Batch #: 82674

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.3	~~U~~		MS	UL
7440-38-2	Arsenic	3.4			MS	
7440-41-7	Beryllium	2.3	U		MS	
7440-43-9	Cadmium	2.3	U		MS	
7440-47-3	Chromium	17			MS	
7440-50-8	Copper	6.5			MS	K
7439-92-1	Lead	7.6			MS	K
7439-97-6	Mercury	0.09	U		MS	
7440-02-0	Nickel	8.8			MS	K
7782-49-2	Selenium	2.3	~~U~~		MS	R
7440-22-4	Silver	2.3	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	13			MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

RW
10/10/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-21/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118
Matrix (soil/water): SOIL Lab Sample ID: 10052118-054
Level (low/med): LOW Date Received: 05/21/2010
% Solids: 90 Batch #: 82702

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.2			MS
7439-92-1	Lead	3.6		N	MS

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

lew
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-3-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118
Matrix (soil/water): SOIL Lab Sample ID: 10052118-055
Level (low/med): LOW Date Received: 05/21/2010
% Solids: 93 Batch #: 82702

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.9			MS
7439-92-1	Lead	9.1		N	MS

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

gw
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-42/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052118
Matrix (soil/water): SOIL Lab Sample ID: 10052118-056
Level (low/med): LOW Date Received: 05/21/2010
% Solids: 91 Batch #: 82674

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.5	~~U~~		MS	UL
7440-38-2	Arsenic	6.4			MS	
7440-41-7	Beryllium	2.5	U		MS	
7440-43-9	Cadmium	2.5	U		MS	
7440-47-3	Chromium	30			MS	
7440-50-8	Copper	14			MS	K
7439-92-1	Lead	9.7			MS	K
7439-97-6	Mercury	0.10	U		MS	
7440-02-0	Nickel	9.8			MS	K
7782-49-2	Selenium	2.5	~~U~~		MS	R
7440-22-4	Silver	2.5	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	18			MS	B

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

MW 10/10/10

55

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-3-38/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-057

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 88 Batch #: 82732

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.6	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	5.9			MS	J
7440-41-7	Beryllium	2.6	U		MS	
7440-43-9	Cadmium	2.6	U		MS	
7440-47-3	Chromium	25			MS	
7440-50-8	Copper	16			MS	
7439-92-1	Lead	18			MS	
7439-97-6	Mercury	0.07	J		MS	
7440-02-0	Nickel	20		~~N~~	MS	J
7782-49-2	Selenium	2.6	U		MS	
7440-22-4	Silver	2.6	U		MS	
7440-28-0	Thallium	0.29	J		MS	
7440-66-6	Zinc	28			MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 10/10/10

FORM IA - IN SW6020

56

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-50/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-058

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 88 Batch #: 82732

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7439-96-5	Manganese	1000			MS	K
7440-62-2	Vanadium	70			MS	K

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 10/10/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
NR-11/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-059

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 86 Batch #: 82732

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.10	U		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

CW
10/10/10

58

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-5/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-060

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 85 Batch #: 82732

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-47-3	Chromium	16			MS	
7439-96-5	Manganese	1200			MS	K
7440-62-2	Vanadium	49			MS	K

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

dw
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
R-109/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-061

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 82 Batch #: 82732

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	12			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

lew 10/10/10

60

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-44/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-062

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 88 Batch #: 82732

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7439-92-1	Lead	4.7			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

RW
10/10/10

FORM IA - IN SW6020

61

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
NR-43/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-063

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 79 Batch #: 82732

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7439-96-5	Manganese	220			MS	K
7440-62-2	Vanadium	60			MS	K

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

nw
10/10/10

62

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-8/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-064

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 80 Batch #: 82732

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7439-96-5	Manganese	420			MS	K
7440-62-2	Vanadium	46			MS	K

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

LEW
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
R-33/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-065

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 84 Batch #: 82732

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7439-92-1	Lead	9.1			MS	
7439-96-5	Manganese	250			MS	K
7440-62-2	Vanadium	35			MS	K

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

LW
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
1A-39/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-066

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 77 Batch #: 82732

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-47-3	Chromium	90			MS	
7439-96-5	Manganese	1200			MS	K
7440-62-2	Vanadium	180			MS	K

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

dw
10/10/10

65

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-41/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-067

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 81 Batch #: 82732

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.4	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	5.2			MS	J
7440-41-7	Beryllium	2.4	U		MS	
7440-43-9	Cadmium	2.4	U		MS	
7440-47-3	Chromium	21			MS	
7440-50-8	Copper	10			MS	
7439-92-1	Lead	11			MS	
7439-97-6	Mercury	0.05	J		MS	
7440-02-0	Nickel	11		~~N~~	MS	J
7782-49-2	Selenium	2.4	U		MS	
7440-22-4	Silver	2.4	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	18			MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

RW
10/10/10

66

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-AOC-3-11

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-068

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 93 Batch #: 82732

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.5	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	5.4			MS	J
7440-41-7	Beryllium	2.5	U		MS	
7440-43-9	Cadmium	2.5	U		MS	
7440-47-3	Chromium	24			MS	
7440-50-8	Copper	12			MS	
7439-92-1	Lead	13			MS	
7439-97-6	Mercury	0.05	J		MS	
7440-02-0	Nickel	22		~~N~~	MS	J
7782-49-2	Selenium	2.5	U		MS	
7440-22-4	Silver	2.5	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	18			MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

lw
10/10/10

67

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-3-18/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-069

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 95 Batch #: 82732

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.4	U	N	MS	UL
7440-38-2	Arsenic	2.3			MS	J
7440-41-7	Beryllium	2.4	U		MS	
7440-43-9	Cadmium	2.4	U		MS	
7440-47-3	Chromium	11			MS	
7440-50-8	Copper	3.2			MS	J
7439-92-1	Lead	7.2			MS	J
7439-97-6	Mercury	0.09	U		MS	
7440-02-0	Nickel	2.5		N	MS	J
7782-49-2	Selenium	2.4	U		MS	
7440-22-4	Silver	2.4	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	6.5			MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
10/10/10

68

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-3-34/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-070

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 89 Batch #: 82732

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.1			MS
7439-92-1	Lead	11			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

RW
10/10/10

69

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-AOC-3-12

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-071

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 90 Batch #: 82732

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.1	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	2.5			MS	J
7440-41-7	Beryllium	2.1	U		MS	
7440-43-9	Cadmium	2.1	U		MS	
7440-47-3	Chromium	16			MS	
7440-50-8	Copper	12			MS	J
7439-92-1	Lead	32			MS	J
7439-97-6	Mercury	0.08	U		MS	
7440-02-0	Nickel	13		~~N~~	MS	J
7782-49-2	Selenium	2.1	U		MS	
7440-22-4	Silver	2.1	U		MS	
7440-28-0	Thallium	0.4	U		MS	
7440-66-6	Zinc	41			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
10/10/10

70

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-3-30/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-072

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 93 Batch #: 82732

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.5	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	4.8			MS	J
7440-41-7	Beryllium	2.5	U		MS	
7440-43-9	Cadmium	2.5	U		MS	
7440-47-3	Chromium	20			MS	
7440-50-8	Copper	14			MS	
7439-92-1	Lead	51			MS	
7439-97-6	Mercury	0.10	U		MS	
7440-02-0	Nickel	13		~~N~~	MS	J
7782-49-2	Selenium	2.5	U		MS	
7440-22-4	Silver	2.5	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	70			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

KW
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-13/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052118
Matrix (soil/water): SOIL Lab Sample ID: 10052118-073
Level (low/med): LOW Date Received: 05/21/2010
% Solids: 91 Batch #: 82732

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	1.9	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	3.5			MS	J
7440-41-7	Beryllium	1.9	U		MS	
7440-43-9	Cadmium	1.9	U		MS	
7440-47-3	Chromium	19			MS	
7440-50-8	Copper	4.9			MS	
7439-92-1	Lead	10			MS	
7439-97-6	Mercury	0.08	U		MS	
7440-02-0	Nickel	3.8		~~N~~	MS	J
7782-49-2	Selenium	1.9	U		MS	
7440-22-4	Silver	1.9	U		MS	
7440-28-0	Thallium	0.4	U		MS	
7440-66-6	Zinc	9.5			MS	B

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

WW
10/10/10

72

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-3-37/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-074

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 93 Batch #: 82732

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.1	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	5.2			MS	J
7440-41-7	Beryllium	2.1	U		MS	
7440-43-9	Cadmium	2.1	U		MS	
7440-47-3	Chromium	27			MS	
7440-50-8	Copper	14			MS	
7439-92-1	Lead	16			MS	
7439-97-6	Mercury	0.05	J		MS	
7440-02-0	Nickel	11		~~N~~	MS	J
7782-49-2	Selenium	2.1	U		MS	
7440-22-4	Silver	2.1	U		MS	
7440-28-0	Thallium	0.4	U		MS	
7440-66-6	Zinc	22			MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-20/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-075

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 88 Batch #: 82732

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.9			MS
7439-92-1	Lead	13			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-3-28/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-076

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 93 Batch #: 82734

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.5	U	~~N~~	MS
7440-38-2	Arsenic	2.3			MS
7440-41-7	Beryllium	2.5	U		MS
7440-43-9	Cadmium	2.5	U		MS
7440-47-3	Chromium	40		~~N~~	MS
7440-50-8	Copper	11			MS
7439-92-1	Lead	8.3			MS
7439-97-6	Mercury	0.10	U		MS
7440-02-0	Nickel	11			MS
7782-49-2	Selenium	2.5	U		MS
7440-22-4	Silver	2.5	U		MS
7440-28-0	Thallium	0.5	U		MS
7440-66-6	Zinc	14			MS

Color Before BLACK Clarity Before _____ Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments: _____

lw
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-25/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118
Matrix (soil/water): SOIL Lab Sample ID: 10052118-077
Level (low/med): LOW Date Received: 05/21/2010
% Solids: 94 Batch #: 82734

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.0	U	N	MS
7440-38-2	Arsenic	15			MS
7440-41-7	Beryllium	2.0	U		MS
7440-43-9	Cadmium	2.0	U		MS
7440-47-3	Chromium	140		N	MS
7440-50-8	Copper	8.0			MS
7439-92-1	Lead	20			MS
7439-97-6	Mercury	0.04	J		MS
7440-02-0	Nickel	920			MS
7782-49-2	Selenium	2.0	U		MS
7440-22-4	Silver	2.0	U		MS
7440-28-0	Thallium	0.4	U		MS
7440-66-6	Zinc	32			MS

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

MW
10/10/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

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EPA SAMPLE NO.

AOC-3-36/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-078

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 89 Batch #: 82734

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.6	U	N	MS
7440-38-2	Arsenic	6.4			MS
7440-41-7	Beryllium	2.6	U		MS
7440-43-9	Cadmium	2.6	U		MS
7440-47-3	Chromium	34		N	MS
7440-50-8	Copper	13			MS
7439-92-1	Lead	11			MS
7439-97-6	Mercury	0.06	J		MS
7440-02-0	Nickel	52			MS
7782-49-2	Selenium	2.6	U		MS
7440-22-4	Silver	2.6	U		MS
7440-28-0	Thallium	0.5	U		MS
7440-66-6	Zinc	21			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

lew
10/10/10

FORM IA - IN SW6020

77

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-3-40/0-2 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052118

Matrix (soil/water): SOIL Lab Sample ID: 10052118-079

Level (low/med): LOW Date Received: 05/21/2010

% Solids: 88 Batch #: 82732

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.0	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	4.7			MS	J
7440-41-7	Beryllium	2.0	U		MS	
7440-43-9	Cadmium	2.0	U		MS	
7440-47-3	Chromium	20			MS	
7440-50-8	Copper	19			MS	
7439-92-1	Lead	8.8			MS	
7439-97-6	Mercury	0.09			MS	
7440-02-0	Nickel	32		~~N~~	MS	J
7782-49-2	Selenium	2.0	U		MS	
7440-22-4	Silver	2.0	U		MS	
7440-28-0	Thallium	0.26	J		MS	
7440-66-6	Zinc	27			MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

LW
10/10/10

ENVIRONMENTAL
Data Services, Inc.

GASOLINE RANGE ORGANICS (GRO)
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10052118

Client: ARGO Systems, Glen Burnie, MD Date: October 10, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-28-SW-SW	10052118-001	Water
1MS	AOC-28-SW-SWMS	10052118-001MS	Water
1MSD	AOC-28-SW-SWMSD	10052118-001MSD	Water
2	AOC-28-SW-NW	10052118-002	Water
3	AOC-28-SW-SE	10052118-003	Water
4	DUP-AOC-28-SW-01	10052118-004	Water
5	DUP-SED-01	10052118-005	Soil
6	AOC-28-SED-SW	10052118-006	Soil
6MS	AOC-28-SED-SWMS	10052118-006MS	Soil
6MSD	AOC-28-SED-SWMSD	10052118-006MSD	Soil
7	AOC-28-SED-SE	10052118-007	Soil
8	AOC-28-SED-NW	10052118-008	Soil
9	AOC-28-SW-NE	10052118-020	Water
10	AOC-28-SED-NE	10052118-041	Soil
11	EB-11	10052118-042	Water

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for water and soil samples.

Initial Calibration - The initial calibrations exhibited acceptable %RSD values.

Calibration Verification - The continuing calibrations exhibited acceptable %D values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD samples exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level ug/L	Qualifier	Affected Samples
EB-11	None- ND	-	-	-	-

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-28-SW-NW ug/L	DUP-AOC-28-SW-01 ug/L	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-28-SED-NW ug/kg	DUP-SED-01 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound Identification - Retention times were acceptable and no further action was taken.

Compound Quantitation - No discrepancies were identified.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SW-SW MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82600 Mod Ref. No.: _____ SDG No. : 10052118

Matrix: (SOIL/SED/WATER) SURFACE WATER Lab Sample ID: 10052118-001

Sample wt/vol 5.00 (g/mL) ml Lab File ID: 10052408

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec. _____ Date Analyzed: 05/24/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/L	Q
	TPH-GRO (Gasoline Range Organics)	40	U

MW
10/10/10

SW8021B_SW8015

2

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SW-NW

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82600 Mod Ref. No.: _____ SDG No: 10052118

Matrix: (SOIL/SED/WATER) SURFACE WATER Lab Sample ID: 10052118-002

Sample wt/vol 5.00 (g/mL) ml Lab File ID: 10052409

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec. _____ Date Analyzed: 05/24/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/L	Q
	TPH-GRO (Gasoline Range Organics)	40	U

LW
10/10/10

SW8021B_SW8015

3

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SW-SE

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82600 Mod. Ref. No.: _____ SDG No.: 10052118

Matrix: (SOIL/SED/WATER) SURFACE WATER Lab Sample ID: 10052118-003

Sample wt/vol 5.00 (g/mL) ml Lab File ID: 10052410

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec _____ Date Analyzed: 05/24/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/L	Q
	TPH-GRO (Gasoline Range Organics)	40	U

MW 10/10/10

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-28-SW-01

4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82600 Mod. Ref. No: _____ SDG No.: 10052118

Matrix: (SOIL/SED/WATER) SURFACE WATER Lab Sample ID: 10052118-004

Sample wt/vol 5.00 (g/mL) ml Lab File ID: 10052411

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec _____ Date Analyzed: 05/24/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/L	Q
	TPH-GRO (Gasoline Range Organics)	40	U

MW 10/10/10

SW8021B_SW8015

5

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-SED-01

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82608 Mod. Ref. No: _____ SDG No.: 10052118

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052118-005

Sample wt/vol 5.08 (g/mL) g Lab File ID: 10052430

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec 38 Date Analyzed: 05/24/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	160	U

NW 10/10/10

6

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SED-SW MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82608 Mod Ref. No : _____ SDG No : 10052118

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052118-006

Sample wt/vol 5.14 (g/mL) g Lab File ID: 10052431

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec. 18 Date Analyzed: 05/25/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	120	U

NW
10/10/10

7

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SED-SE

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82608 Mod. Ref. No.: _____ SDG No.: 10052118

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052118-007

Sample wt/vol 5.03 (g/mL) g Lab File ID: 10052432

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec 24 Date Analyzed: 05/25/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	130	U

NW 10/10/10

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SED-NW

8

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82608 Mod Ref. No.: _____ SDG No : 10052118

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052118-008

Sample wt/vol 5.14 (g/mL) g Lab File ID: 10052433

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec. 31 Date Analyzed: 05/25/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	140	U

NW 10/10/10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO
AOC-28-SW-NE

9

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82600 Mod. Ref. No.: _____ SDG No.: 10052118

Matrix: (SOIL/SED/WATER) SURFACE WATER Lab Sample ID: 10052118-020

Sample wt/vol 5.00 (g/mL) ml Lab File ID: 10052412

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec. _____ Date Analyzed: 05/24/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/L	Q
	TPH-GRO (Gasoline Range Organics)	40	U

MW
10/10/10

10

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-SED-NE

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82608 Mod. Ref No.: _____ SDG No. : 10052118

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052118-041

Sample wt/vol 5.04 (g/mL) g Lab File ID: 10052434

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec 25 Date Analyzed: 05/25/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	130	U

NW
10/10/10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
EB-11

11

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82600 Mod. Ref. No: _____ SDG No: 10052118

Matrix: (SOIL/SED/WATER) SURFACE WATER Lab Sample ID: 10052118-042

Sample wt/vol 5.00 (g/mL) ml Lab File ID: 10052407

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2010

% Moisture: not dec. _____ Date Analyzed: 05/24/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/L	Q
	TPH-GRO (Gasoline Range Organics)	40	U

MW 10/10/10

SW8021B_SW8015

ENVIRONMENTAL
Data Services, Inc.

DIESEL RANGE ORGANICS (DRO)
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10052118

Client: ARGO Systems, Glen Burnie, MD Date: October 10, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-28-SW-SW	10052118-001	Water
1MS	AOC-28-SW-SWMS	10052118-001MS	Water
1MSD	AOC-28-SW-SWMSD	10052118-001MSD	Water
2	AOC-28-SW-NW	10052118-002	Water
3	AOC-28-SW-SE	10052118-003	Water
4	DUP-AOC-28-SW-01	10052118-004	Water
5	DUP-SED-01	10052118-005	Soil
6	AOC-28-SED-SW	10052118-006	Soil
6MS	AOC-28-SED-SWMS	10052118-006MS	Soil
6MSD	AOC-28-SED-SWMSD	10052118-006MSD	Soil
7	AOC-28-SED-SE	10052118-007	Soil
8	AOC-28-SED-NW	10052118-008	Soil
9	AOC-28-SW-NE	10052118-020	Water
10	AOC-28-SED-NE	10052118-041	Soil
11	EB-11	10052118-042	Water

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 7 days for water samples, 14 days for soil samples, and analyzed within 40 days.

Initial Calibration - The initial calibrations exhibited acceptable %RSD values.

Calibration Verification - The continuing calibrations exhibited acceptable %D values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD samples exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS sample(s) exhibited acceptable %R values.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. mg/L	Action Level mg/L	Qualifier	Affected Samples
EB-11	TPH-DRO	0.075	0.375	B	1-3, 9

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-28-SW-NW mg/L	DUP-AOC-28-SW-01 mg/L	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-28-SED-NW mg/kg	DUP-SED-01 mg/kg	RPD	Qualifier
None	ND	ND	-	-

Compound Identification - Retention times were acceptable and no further action was taken.

Compound Quantitation - No discrepancies were identified.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-28-SW-SW MS/MS

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82578 Mod. Ref No.: _____ SDG No.: 10052118

Matrix : (SOIL/SED/WATER) SURFACE WATER Lab Sample Id: 10052118-001

Sample wt/vol: 1000 (g/mL): ml Lab File ID: 10052427.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) CLEAR Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	TPH-DRO (Diesel Range Organics)	0.042	B

lw
10/10/10

SW8015DRO

2

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-28-SW-NW

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82578 Mod Ref No.: _____ SDG No : 10052118

Matrix : (SOIL/SED/WATER) SURFACE WATER Lab Sample Id: 10052118-002

Sample wt/vol: 1000 (g/mL): ml Lab File ID: 10052419.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) CLEAR Date Received: 05/21/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/24/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	TPH-DRO (Diesel Range Organics)	0.055	B

MW
10/10/10

(1) Cannot be separated from Diphenylamine

SW8015DRO

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-28-SW-SE

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82578 Mod. Ref No.: _____ SDG No.: 10052118

Matrix : (SOIL/SED/WATER) SURFACE WATER Lab Sample Id: 10052118-003

Sample wt/vol: 1000 (g/mL): ml Lab File ID: 10052428.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) CLEAR Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	TPH-DRO (Diesel Range Organics)	0.070	B

LW
10/10/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-AOC-28-SW-01

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82578 Mod. Ref No : _____ SDG No : 10052118

Matrix : (SOIL/SED/WATER) SURFACE WATER Lab Sample Id: 10052118-004

Sample wt/vol: 850 (g/mL):ml Lab File ID: 10052426.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) CLEAR Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	TPH-DRO (Diesel Range Organics)	0.047	U

NW
10/10/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-SED-01

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82675 Mod. Ref No.: _____ SDG No : 10052118

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052118-005

Sample wt/vol: 30.61 (g/mL):g Lab File ID: 10052722.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 38 Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/27/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/27/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	16	U

NW
10/10/10

6

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-28-SED-SW MS/MS

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82675 Mod Ref No.: _____ SDG No.: 10052118

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052118-006

Sample wt/vol: 30.45 (g/mL): g Lab File ID: 10052719.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/27/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/27/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	12	U

hw
10/1/10

(1) Cannot be separated from Diphenylamine

SW8015DRO

7

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-28-SED-SE

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82675 Mod. Ref No.: _____ SDG No : 10052118

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052118-007

Sample wt/vol: 30.12 (g/mL):g Lab File ID: 10052721.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/27/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/27/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	13	U

KW
10/10/10

SW8015DRO

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-28-SED-NW

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82675 Mod Ref No : _____ SDG No.: 10052118

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052118-008

Sample wt/vol: 30.01 (g/mL):g Lab File ID: 10052724.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 31 Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/27/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/27/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	14	U

10/10/10

(1) Cannot be separated from Diphenylamine

SW8015DRO

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-28-SW-NE

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82578 Mod Ref No : _____ SDG No.: 10052118

Matrix : (SOIL/SED/WATER) SURFACE WATER Lab Sample Id: 10052118-020

Sample wt/vol: 1000 (g/mL): ml Lab File ID: 10052429.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) CLEAR Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	TPH-DRO (Diesel Range Organics)	0.065	B

NW
10/10/10

10

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-28-SED-NE

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82675 Mod. Ref No.: _____ SDG No.: 10052118

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052118-041

Sample wt/vol: 30.54 (g/mL):g Lab File ID: 10052723.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/27/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/27/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	13	U

NW
10/10/10

(1) Cannot be separated from Diphenylamine

SW8015DRO

11

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO

EB-11

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82578 Mod. Ref No.: _____ SDG No : 10052118

Matrix : (SOIL/SED/WATER) SURFACE WATER Lab Sample Id: 10052118-042

Sample wt/vol: 1000 (g/mL): ml Lab File ID: 10052424.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) CLEAR Date Received: 05/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	TPH-DRO (Diesel Range Organics)	0.075	

MW
10/10/10

SW8015DRO

ENVIRONMENTAL
Data Services, Inc.

VOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10052015

Client: ARGO Systems, Glen Burnie, MD Date: October 8, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: [redacted] (b) (4)

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-28-UST-01	10052015-003	Soil
2	AOC-28-UST-02	10052015-004	Soil
3	AOC-7-2	10052015-005	Soil
4	AOC-7-5	10052015-006	Soil
5	AOC-7-9	10052015-007	Soil
6	AOC-7-7	10052015-008	Soil
7	AOC-7-4	10052015-009	Soil
8	AOC-7-8	10052015-010	Soil
9	DUP-AOC-7-01	10052015-011	Soil
10	DUP-AOC-7-02	10052015-012	Soil
11	AOC-7-11	10052015-013	Soil
11MS	AOC-7-11MS	10052015-013MS	Soil
11MSD	AOC-7-11MSD	10052015-013MSD	Soil
12	AOC-7-10	10052015-014	Soil
13	AOC-7-6	10052015-015	Soil
13MS	AOC-7-6MS	10052015-015MS	Soil
13MSD	AOC-7-6MSD	10052015-015MSD	Soil
14	AOC-7-3	10052015-016	Soil
15	DUP-AOC-7-03	10052015-017	Soil
16	AOC-7-1	10052015-018	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for soil samples.

GC/MS Tuning - All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values except the following.

ICAL Date	Compound	%RSD/RRF	Qualifier	Affected Samples
05/07/10	4-Methyl-2-pentanone	0.044 RRF	L/R	1-8
05/24/10	4-Methyl-2-pentanone	0.045 RRF	L/R	9-16

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
05/21/10	2-Butanone	32.7%/0.035 RRF	L/R	1-8
	4-Methyl-2-pentanone	0.036 RRF	None	See ICAL
05/25/10	4-Methyl-2-pentanone	0.046 RRF	None	See ICAL

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD samples exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier
11	Isopropylbenzene	OK/OK/31	None for RPD alone
	n-Propylbenzene	OK/OK/33	
	1,3,5-Trimethylbenzene	OK/OK/32	
	n-Butylbenzene	OK/OK/39	
13	1,2-Dibromo-3-Chloropropane	158%/146%/OK	None- ND
	trans-1,2-Dichloroethene	OK/OK/37	None for RPD alone

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Trip, Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-7-7 ug/kg	DUP-AOC-7-01 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-7-8 ug/kg	DUP-AOC-7-02 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-7-10 ug/kg	DUP-AOC-7-03 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Tentatively Identified Compounds (TICs) - TICs were not reported with this data package.

Compound Quantitation - No discrepancies were identified.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-UST-01

1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82572 Mod. Ref. No.: _____ SDG No. : 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-003

Sample wt/vol 5.06 (g/mL) g Lab File ID: 10052138

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 4 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl Chloride	5	U	
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	5	U	
67-64-1	Acetone	21	U	
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene Chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl-t-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
78-93-3	2-Butanone	21	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
107-06-2	1,2-Dichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
71-43-2	Benzene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-15-0	Carbon Disulfide	10	U	
79-01-6	Trichloroethene	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-Pentanone	21	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
108-88-3	Toluene	5	U	

MW 10/8/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-UST-01

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82572 Mod Ref. No.: _____ SDG No.: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-003

Sample wt/vol 5.06 (g/mL) g Lab File ID: 10052138

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 4 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	10	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	41	U

NW 10/8/10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-UST-02

2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82572 Mod. Ref. No.: _____ SDG No.: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-004

Sample wt/vol 6.45 (g/mL) g Lab File ID: 10052139

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 5 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	4	U	
75-01-4	Vinyl Chloride	4	U	
74-83-9	Bromomethane	4	U	
75-00-3	Chloroethane	4	U	
67-64-1	Acetone	16	U	
75-35-4	1,1-Dichloroethene	4	U	
75-09-2	Methylene Chloride	4	U	
156-60-5	trans-1,2-Dichloroethene	4	U	
1634-04-4	Methyl-t-butyl ether	4	U	
75-34-3	1,1-Dichloroethane	4	U	
78-93-3	2-Butanone	16	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	4	U	
67-66-3	Chloroform	4	U	
71-55-6	1,1,1-Trichloroethane	4	U	
107-06-2	1,2-Dichloroethane	4	U	
56-23-5	Carbon Tetrachloride	4	U	
71-43-2	Benzene	4	U	
78-87-5	1,2-Dichloropropane	4	U	
75-15-0	Carbon Disulfide	8	U	
79-01-6	Trichloroethene	4	U	
75-27-4	Bromodichloromethane	4	U	
10061-01-5	cis-1,3-Dichloropropene	4	U	
108-10-1	4-Methyl-2-Pentanone	16	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	4	U	
79-00-5	1,1,2-Trichloroethane	4	U	
108-88-3	Toluene	4	U	

hw 10/8/10

SW8260B

2

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-UST-02

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82572 Mod Ref No: _____ SDG No.: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-004

Sample wt/vol 6.45 (g/mL) g Lab File ID: 10052139

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec 5 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	4	U
124-48-1	Dibromochloromethane	4	U
75-25-2	Bromoform	4	U
127-18-4	Tetrachloroethene	4	U
108-90-7	Chlorobenzene	4	U
100-41-4	Ethylbenzene	4	U
108-38-3	m,p-Xylenes	8	U
100-42-5	Styrene	4	U
79-34-5	1,1,2,2-Tetrachloroethane	4	U
95-47-6	o-Xylene	4	U
98-82-8	Isopropylbenzene	4	U
103-65-1	n-Propylbenzene	4	U
108-67-8	1,3,5-Trimethylbenzene	4	U
95-63-6	1,2,4-Trimethylbenzene	4	U
104-51-8	n-Butylbenzene	4	U
96-12-8	1,2-Dibromo-3-Chloropropane	33	U

hel 10/8/10

SW8260B

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-2

3

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82572 Mod. Ref. No.: _____ SDG No.: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-005

Sample wt/vol 5.07 (g/mL) g Lab File ID: 10052140

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 5 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl Chloride	5	U	
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	5	U	
67-64-1	Acetone	21	U	
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene Chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl-t-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
78-93-3	2-Butanone	21	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
107-06-2	1,2-Dichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
71-43-2	Benzene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-15-0	Carbon Disulfide	10	U	
79-01-6	Trichloroethene	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-Pentanone	21	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
108-88-3	Toluene	5	U	

NW 10/8/10

SW8260B

3

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82572 Mod Ref. No.: _____ SDG No. : 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-005

Sample wt/vol 5.07 (g/mL) g Lab File ID: 10052140

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 5 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	10	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	42	U

RW 10/8/10

SW8260B

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-5

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82572 Mod. Ref. No.: _____ SDG No.: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-006

Sample wt/vol 5.09 (g/mL) g Lab File ID: 10052141

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 7 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl Chloride	5	U	
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	5	U	
67-64-1	Acetone	21	U	
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene Chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl-t-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
78-93-3	2-Butanone	21	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
107-06-2	1,2-Dichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
71-43-2	Benzene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-15-0	Carbon Disulfide	11	U	
79-01-6	Trichloroethene	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-Pentanone	21	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
108-88-3	Toluene	5	U	

MW 10/8/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-5

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82572 Mod. Ref. No.: _____ SDG No : 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-006

Sample wt/vol 5.09 (g/mL) g Lab File ID: 10052141

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec 7 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	11	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	42	U

MW 10/8/10

5

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO
AOC-7-9

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82572 Mod Ref No.: _____ SDG No.: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-007

Sample wt/vol 5.55 (g/mL) g Lab File ID: 10052142

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 7 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (μ L) Soil Aliquot Volume: _____ (μ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl Chloride	5	U	
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	5	U	
67-64-1	Acetone	19	U	
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene Chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl-t-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
78-93-3	2-Butanone	19	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
107-06-2	1,2-Dichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
71-43-2	Benzene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-15-0	Carbon Disulfide	10	U	
79-01-6	Trichloroethene	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-Pentanone	19	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
108-88-3	Toluene	5	U	

NW 10/8/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-9

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82572 Mod Ref No.: _____ SDG No.: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-007

Sample wt/vol 5.55 (g/mL) g Lab File ID: 10052142

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec 7 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	10	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	39	U

MW 10/8/10

6

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-7

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82572 Mod. Ref No: _____ SDG No: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-008

Sample wt/vol 5.48 (g/mL) g Lab File ID: 10052143

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec 5 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl Chloride	5	U	
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	5	U	
67-64-1	Acetone	19	U	
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene Chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl-t-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
78-93-3	2-Butanone	19	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
107-06-2	1,2-Dichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
71-43-2	Benzene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-15-0	Carbon Disulfide	10	U	
79-01-6	Trichloroethene	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-Pentanone	19	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
108-88-3	Toluene	5	U	

NW 10/8/10

SW8260B

6

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-7

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82572 Mod. Ref. No.: _____ SDG No.: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-008

Sample wt/vol 5.48 (g/mL) g Lab File ID: 10052143

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 5 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	10	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	38	U

NW 10/8/10

7

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82572 Mod. Ref. No.: _____ SDG No. : 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-009

Sample wt/vol 4.63 (g/mL) g Lab File ID: 10052144

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec 5 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	6	U	
75-01-4	Vinyl Chloride	6	U	
74-83-9	Bromomethane	6	U	
75-00-3	Chloroethane	6	U	
67-64-1	Acetone	23	U	
75-35-4	1,1-Dichloroethene	6	U	
75-09-2	Methylene Chloride	6	U	
156-60-5	trans-1,2-Dichloroethene	6	U	
1634-04-4	Methyl-t-butyl ether	6	U	
75-34-3	1,1-Dichloroethane	6	U	
78-93-3	2-Butanone	23	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	6	U	
67-66-3	Chloroform	6	U	
71-55-6	1,1,1-Trichloroethane	6	U	
107-06-2	1,2-Dichloroethane	6	U	
56-23-5	Carbon Tetrachloride	6	U	
71-43-2	Benzene	6	U	
78-87-5	1,2-Dichloropropane	6	U	
75-15-0	Carbon Disulfide	11	U	
79-01-6	Trichloroethene	6	U	
75-27-4	Bromodichloromethane	6	U	
10061-01-5	cis-1,3-Dichloropropene	6	U	
108-10-1	4-Methyl-2-Pentanone	23	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	6	U	
79-00-5	1,1,2-Trichloroethane	6	U	
108-88-3	Toluene	6	U	

NW 10/8/10

SW8260B

7

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82572 Mod Ref No: _____ SDG No.: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-009

Sample wt/vol 4.63 (g/mL) g Lab File ID: 10052144

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 5 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	11	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	45	U

NW 10/8/10

SW8260B

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-8

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82572 Mod Ref No : _____ SDG No : 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-010

Sample wt/vol 5.36 (g/mL) g Lab File ID: 10052145

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 6 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl Chloride	5	U	
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	5	U	
67-64-1	Acetone	20	U	
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene Chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl-t-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
78-93-3	2-Butanone	20	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
107-06-2	1,2-Dichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
71-43-2	Benzene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-15-0	Carbon Disulfide	10	U	
79-01-6	Trichloroethene	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-Pentanone	20	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
108-88-3	Toluene	5	U	

NW 10/8/10

SW8260B

8

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-8

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82572 Mod Ref No.: _____ SDG No.: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-010

Sample wt/vol 5.36 (g/mL) g Lab File ID: 10052145

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 6 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	10	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	40	U

NW 10/8/10

SW8260B

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-7-01

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82636 Mod. Ref No: _____ SDG No: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-011

Sample wt/vol 5.89 (g/mL) g Lab File ID: 10052508

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 5 Date Analyzed: 05/25/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	4	U
75-01-4	Vinyl Chloride	4	U
74-83-9	Bromomethane	4	U
75-00-3	Chloroethane	4	U
67-64-1	Acetone	18	U
75-35-4	1,1-Dichloroethene	4	U
75-09-2	Methylene Chloride	4	U
156-60-5	trans-1,2-Dichloroethene	4	U
1634-04-4	Methyl-t-butyl ether	4	U
75-34-3	1,1-Dichloroethane	4	U
78-93-3	2-Butanone	18	U
156-59-2	cis-1,2-Dichloroethene	4	U
67-66-3	Chloroform	4	U
71-55-6	1,1,1-Trichloroethane	4	U
107-06-2	1,2-Dichloroethane	4	U
56-23-5	Carbon Tetrachloride	4	U
71-43-2	Benzene	4	U
78-87-5	1,2-Dichloropropane	4	U
75-15-0	Carbon Disulfide	9	U
79-01-6	Trichloroethene	4	U
75-27-4	Bromodichloromethane	4	U
10061-01-5	cis-1,3-Dichloropropene	4	U
108-10-1	4-Methyl-2-Pentanone	18	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	4	U
79-00-5	1,1,2-Trichloroethane	4	U
108-88-3	Toluene	4	U

MW 10/8/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-7-01

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82636 Mod. Ref. No : _____ SDG No : 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-011

Sample wt/vol 5.89 (g/mL) g Lab File ID: 10052508

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec 5 Date Analyzed: 05/25/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	4	U
124-48-1	Dibromochloromethane	4	U
75-25-2	Bromoform	4	U
127-18-4	Tetrachloroethene	4	U
108-90-7	Chlorobenzene	4	U
100-41-4	Ethylbenzene	4	U
108-38-3	m,p-Xylenes	9	U
100-42-5	Styrene	4	U
79-34-5	1,1,2,2-Tetrachloroethane	4	U
95-47-6	o-Xylene	4	U
98-82-8	Isopropylbenzene	4	U
103-65-1	n-Propylbenzene	4	U
108-67-8	1,3,5-Trimethylbenzene	4	U
95-63-6	1,2,4-Trimethylbenzene	4	U
104-51-8	n-Butylbenzene	4	U
96-12-8	1,2-Dibromo-3-Chloropropane	36	U

NW 10/8/10

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-7-02

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82636 Mod. Ref No.: _____ SDG No : 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-012

Sample wt/vol 3.63 (g/mL) g Lab File ID: 10052509

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec 6 Date Analyzed: 05/25/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	7	U
75-01-4	Vinyl Chloride	7	U
74-83-9	Bromomethane	7	U
75-00-3	Chloroethane	7	U
67-64-1	Acetone	29	U
75-35-4	1,1-Dichloroethene	7	U
75-09-2	Methylene Chloride	7	U
156-60-5	trans-1,2-Dichloroethene	7	U
1634-04-4	Methyl-t-butyl ether	7	U
75-34-3	1,1-Dichloroethane	7	U
78-93-3	2-Butanone	29	U
156-59-2	cis-1,2-Dichloroethene	7	U
67-66-3	Chloroform	7	U
71-55-6	1,1,1-Trichloroethane	7	U
107-06-2	1,2-Dichloroethane	7	U
56-23-5	Carbon Tetrachloride	7	U
71-43-2	Benzene	7	U
78-87-5	1,2-Dichloropropane	7	U
75-15-0	Carbon Disulfide	15	U
79-01-6	Trichloroethene	7	U
75-27-4	Bromodichloromethane	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
108-10-1	4-Methyl-2-Pentanone	29	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	7	U
79-00-5	1,1,2-Trichloroethane	7	U
108-88-3	Toluene	7	U

hw 10/8/10

SW8260B

1b

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-7-02

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82636 Mod. Ref. No.: _____ SDG No.: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-012

Sample wt/vol 3.63 (g/mL) g Lab File ID: 10052509

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec 6 Date Analyzed: 05/25/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	7	U
124-48-1	Dibromochloromethane	7	U
75-25-2	Bromoform	7	U
127-18-4	Tetrachloroethene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
108-38-3	m,p-Xylenes	15	U
100-42-5	Styrene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U
95-47-6	o-Xylene	7	U
98-82-8	Isopropylbenzene	7	U
103-65-1	n-Propylbenzene	7	U
108-67-8	1,3,5-Trimethylbenzene	7	U
95-63-6	1,2,4-Trimethylbenzene	7	U
104-51-8	n-Butylbenzene	7	U
96-12-8	1,2-Dibromo-3-Chloropropane	59	U

MJ 10/8/10

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-11 MSMSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82572 Mod. Ref. No.: _____ SDG No. : 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-013

Sample wt/vol 5.37 (g/mL) g Lab File ID: 10052146

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec 7 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
67-64-1	Acetone	20	U
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl-t-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	20	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-15-0	Carbon Disulfide	10	U
79-01-6	Trichloroethene	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-Pentanone	20	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
108-88-3	Toluene	5	U

MW 10/8/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-11 MSMSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82572 Mod. Ref. No.: _____ SDG No.: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-013

Sample wt/vol 5.37 (g/mL) g Lab File ID: 10052146

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 7 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	10	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	40	U

RW 10/8/10

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82636 Mod. Ref. No.: _____ SDG No: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-014

Sample wt/vol 5.19 (g/mL) g Lab File ID: 10052510

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 5 Date Analyzed: 05/25/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
67-64-1	Acetone	20	U
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl-t-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	20	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-15-0	Carbon Disulfide	10	U
79-01-6	Trichloroethene	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-Pentanone	20	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
108-88-3	Toluene	5	U

MW 10/8/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No. : 82636 Mod. Ref No : _____ SDG No : 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-014

Sample wt/vol 5.19 (g/mL) g Lab File ID: 10052510

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec 5 Date Analyzed: 05/25/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	10	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	41	U

QW 10/8/10

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-6 MSMSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82636 Mod Ref. No: _____ SDG No.: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-015

Sample wt/vol 4.66 (g/mL) g Lab File ID: 10052511

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 6 Date Analyzed: 05/25/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	6	U
75-01-4	Vinyl Chloride	6	U
74-83-9	Bromomethane	6	U
75-00-3	Chloroethane	6	U
67-64-1	Acetone	23	U
75-35-4	1,1-Dichloroethene	6	U
75-09-2	Methylene Chloride	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
1634-04-4	Methyl-t-butyl ether	6	U
75-34-3	1,1-Dichloroethane	6	U
78-93-3	2-Butanone	23	U
156-59-2	cis-1,2-Dichloroethene	6	U
67-66-3	Chloroform	6	U
71-55-6	1,1,1-Trichloroethane	6	U
107-06-2	1,2-Dichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
71-43-2	Benzene	6	U
78-87-5	1,2-Dichloropropane	6	U
75-15-0	Carbon Disulfide	11	U
79-01-6	Trichloroethene	6	U
75-27-4	Bromodichloromethane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-Pentanone	23	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U
108-88-3	Toluene	6	U

MW 10/8/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-6 MSMSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82636 Mod. Ref. No.: _____ SDG No.: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-015

Sample wt/vol 4.66 (g/mL) g Lab File ID: 10052511

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 6 Date Analyzed: 05/25/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	11	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	46	U

KW 10/8/10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-3

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82636 Mod. Ref. No.: _____ SDG No. : 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-016

Sample wt/vol 4.36 (g/mL) g Lab File ID: 10052514

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec 5 Date Analyzed: 05/25/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	6	U
75-01-4	Vinyl Chloride	6	U
74-83-9	Bromomethane	6	U
75-00-3	Chloroethane	6	U
67-64-1	Acetone	24	U
75-35-4	1,1-Dichloroethene	6	U
75-09-2	Methylene Chloride	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
1634-04-4	Methyl-t-butyl ether	6	U
75-34-3	1,1-Dichloroethane	6	U
78-93-3	2-Butanone	24	U
156-59-2	cis-1,2-Dichloroethene	6	U
67-66-3	Chloroform	6	U
71-55-6	1,1,1-Trichloroethane	6	U
107-06-2	1,2-Dichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
71-43-2	Benzene	6	U
78-87-5	1,2-Dichloropropane	6	U
75-15-0	Carbon Disulfide	12	U
79-01-6	Trichloroethene	6	U
75-27-4	Bromodichloromethane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-Pentanone	24	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U
108-88-3	Toluene	6	U

LW 10/8/10

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-3

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82636 Mod. Ref. No.: _____ SDG No. : 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-016

Sample wt/vol 4.36 (g/mL) g Lab File ID: 10052514

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 5 Date Analyzed: 05/25/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	12	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	7	
103-65-1	n-Propylbenzene	24	
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	110	
104-51-8	n-Butylbenzene	10	
96-12-8	1,2-Dibromo-3-Chloropropane	48	U

WW 10/8/10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-7-03

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82636 Mod. Ref. No.: _____ SDG No.: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-017

Sample wt/vol 4.60 (g/mL) g Lab File ID: 10052515

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 4 Date Analyzed: 05/25/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	6	U
75-01-4	Vinyl Chloride	6	U
74-83-9	Bromomethane	6	U
75-00-3	Chloroethane	6	U
67-64-1	Acetone	23	U
75-35-4	1,1-Dichloroethene	6	U
75-09-2	Methylene Chloride	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
1634-04-4	Methyl-t-butyl ether	6	U
75-34-3	1,1-Dichloroethane	6	U
78-93-3	2-Butanone	23	U
156-59-2	cis-1,2-Dichloroethene	6	U
67-66-3	Chloroform	6	U
71-55-6	1,1,1-Trichloroethane	6	U
107-06-2	1,2-Dichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
71-43-2	Benzene	6	U
78-87-5	1,2-Dichloropropane	6	U
75-15-0	Carbon Disulfide	11	U
79-01-6	Trichloroethene	6	U
75-27-4	Bromodichloromethane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-Pentanone	23	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U
108-88-3	Toluene	6	U

AW 10/8/10

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-7-03

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82636 Mod Ref. No.: _____ SDG No : 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-017

Sample wt/vol 4.60 (g/mL) g Lab File ID: 10052515

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 4 Date Analyzed: 05/25/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	11	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	45	U

MW 10/8/10

16

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82636 Mod. Ref. No.: _____ SDG No : 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-018

Sample wt/vol 5.29 (g/mL) g Lab File ID: 10052516

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 9 Date Analyzed: 05/25/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
67-64-1	Acetone	19	J
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl-t-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	21	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-15-0	Carbon Disulfide	10	U
79-01-6	Trichloroethene	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-Pentanone	21	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
108-88-3	Toluene	5	U

MW 10/8/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82636 Mod Ref. No : _____ SDG No : 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-018

Sample wt/vol 5.29 (g/mL) g Lab File ID: 10052516

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 9 Date Analyzed: 05/25/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	49	
108-38-3	m,p-Xylenes	10	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	
98-82-8	Isopropylbenzene	13	
103-65-1	n-Propylbenzene	58	
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	200	
104-51-8	n-Butylbenzene	28	
96-12-8	1,2-Dibromo-3-Chloropropane	42	U

LW 10/8/10

ENVIRONMENTAL
Data Services, Inc.

SEMIVOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10052015

Client: ARGO Systems, Glen Burnie, MD Date: October 8, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: [redacted] (b) (4)

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-2A-34/0-2	10052015-001	Soil
1MS	AOC-2A-34/0-2MS	10052015-001MS	Soil
1MSD	AOC-2A-34/0-2MSD	10052015-001MSD	Soil
2	AOC-2A-34/2-4	10052015-002	Soil
2MS	AOC-2A-34/2-4MS	10052015-002MS	Soil
2MSD	AOC-2A-34/2-4MSD	10052015-002MSD	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD samples exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS sample exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate samples were not analyzed.

Tentatively Identified Compounds (TICs) - TICs were not reported.

Compound Quantitation - No discrepancies were identified.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-2A-34/0-2 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82643 Mod. Ref No.: _____ SDG No.: 10052015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052015-001

Sample wt/vol: 30.2 (g/mL): g Lab File ID: 10052538.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/20/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/26/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

LW 10/8/10

2

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-34/2-4 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82643 Mod Ref No : _____ SDG No : 10052015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052015-002

Sample wt/vol: 30.14 (g/mL):g Lab File ID: 10052539.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/20/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/25/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/26/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

hw
10/8/10

(1) Cannot be separated from Diphenylamine

SW8270C

ENVIRONMENTAL
Data Services, Inc.

PESTICIDES

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10052015

Client: ARGO Systems, Glen Burnie, MD Date: October 8, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-2A-34/0-2	10052015-001	Soil
1MS	AOC-2A-34/0-2MS	10052015-001MS	Soil
1MSD	AOC-2A-34/0-2MSD	10052015-001MSD	Soil
2	AOC-2A-34/2-4	10052015-002	Soil
2MS	AOC-2A-34/2-4MS	10052015-002MS	Soil
2MSD	AOC-2A-34/2-4MSD	10052015-002MSD	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days.

Instrument performance - All 4,4'-DDT/endrin % breakdown, resolution check mixture and PEMs were within criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD values.

Calibration Verification - The continuing calibrations exhibited acceptable %D values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD samples exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier
1	4,4-DDD	49%/64%/OK	L/UL
	4,4-DDE	0%/0%/OK	L/R
	4,4-DDT	0%/0%/OK	L/R unless already J
	alpha-BHC	66%/67%/OK	L/UL
	gamma-BHC (Lindane)	69%/OK/OK	L/UL
2	Methoxychlor	134%/OK/OK	None- ND

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate samples were not analyzed.

Compound Identification - Retention times were acceptable and no further action was taken.

Compound Quantitation - EDS sample ID# 1 exhibited a high concentration of 4,4-DDT which exceeded the calibration range. The sample was not reanalyzed at a dilution. Therefore, the reviewer has qualified this compound estimated (J).

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-34/0-2 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No.: 10052015

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052015-001

Sample wt/vol: 10.18 (g/mL): g Lab File ID: 10052528.D

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/20/2010

Extraction : (Type) SONC Date Extracted: 05/24/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82655

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
72-54-8	4,4-DDD	12	~~J~~	L
72-55-9	4,4-DDE	41		L
50-29-3	4,4-DDT	78	~~B~~	J
309-00-2	Aldrin	23	U	
319-84-6	alpha-BHC	23	~~U~~	UL
5103-71-9	alpha-Chlordane	23	U	
319-85-7	beta-BHC	23	U	
319-86-8	delta-BHC	23	U	
60-57-1	Dieldrin	23	U	
959-98-8	Endosulfan I	23	U	
33213-65-9	Endosulfan II	23	U	
1031-07-8	Endosulfan sulfate	23	U	
72-20-8	Endrin	23	U	
7421-93-4	Endrin aldehyde	23	U	
53494-70-5	Endrin ketone	23	U	
58-89-9	gamma-BHC (Lindane)	23	~~U~~	UL
5103-74-2	gamma-Chlordane	23	U	
76-44-8	Heptachlor	23	U	
1024-57-3	Heptachlor epoxide	23	U	
72-43-5	Methoxychlor	23	U	
8001-35-2	Toxaphene	230	U	

MW 10/8/10

SW8081B

2

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-34/2-4 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No : 10052015

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10052015-002

Sample wt/vol: 10.34 (g/mL): g Lab File ID: 10052530.D

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/20/2010

Extraction : (Type) SONC Date Extracted: 05/24/2010

Concentrated Extract Volume: 10 (μ L) Date Analyzed: 05/25/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82655

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

MW 10/8/10

SW8081B

ENVIRONMENTAL
Data Services, Inc.

METALS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10052015

Client: ARGO Systems, Glen Burnie, MD Date: October 8, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-35-1	10052015-019	Soil
2	AOC-35-2	10052015-020	Soil
3	AOC-35-3	10052015-021	Soil
4	AOC-35-4	10052015-022	Soil
5	AOC-35-5	10052015-023	Soil
6	AOC-35-6	10052015-024	Soil
7	AOC-35-7	10052015-025	Soil
8	AOC-35-8	10052015-026	Soil
9	AOC-35-9	10052015-027	Soil
10	AOC-35-10	10052015-028	Soil
11	AOC-35-11	10052015-029	Soil
12	AOC-35-12	10052015-030	Soil
13	AOC-35-13	10052015-031	Soil
13MS	AOC-35-13MS	10052015-031MS	Soil
13MSD	AOC-35-13MSD	10052015-031MSD	Soil
14	AOC-35-14	10052015-032	Soil
15	AOC-35-15	10052015-033	Soil
16	AOC-35-16	10052015-034	Soil
17	AOC-35-17	10052015-035	Soil
18	AOC-35-18	10052015-036	Soil
19	AOC-35-19	10052015-037	Soil
20	AOC-35-20	10052015-038	Soil
21	AOC-35-21	10052015-039	Soil
22	AOC-35-22	10052015-040	Soil
23	AOC-35-23	10052015-041	Soil
24	AOC-35-24	10052015-042	Soil
25	AOC-35-25	10052015-043	Soil
26	AOC-35-26	10052015-044	Soil
27	AOC-35-27	10052015-045	Soil
28	DUP-AOC-35-05	10052015-046	Soil
29	DUP-AOC-35-06	10052015-047	Soil

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable except the following.

CCV ID	Compound	%R	Qualifier	Affected Samples
Batch 82638/39	Beryllium	87%	J/UJ	5-29

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier	Affected Samples
13	Antimony	54%/49%/OK	L/UL	5-24
Reference 1	Chromium	0%/0%/OK	L/R	25-29
	Zinc	72%/OK/33	J/UL	
Reference 2	Antimony	71%/60%/OK	L/UL	1-4
	Chromium	OK/130%/OK	K	
	Copper	OK/135%/OK	K	
	Zinc	139%/OK/33	J	

LCS - The LCS samples exhibited acceptable %R values except the following.

LCS ID	Compound	%R	Qualifier	Affected Samples
Batch 82604	Beryllium	127%	K	1-4

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-35-13 mg/kg	DUP-AOC-35-05 mg/kg	RPD	Qualifier
Arsenic	2.2	2.7	20%	None
Beryllium	1.4	2.9 U	NC	None
Chromium	22	24	9%	None
Copper	7.2	9.4	27%	None
Lead	11	13	17%	None
Nickel	14	15	7%	None
Thallium	0.37	0.6 U	NC	None
Zinc	41	42	2%	None
Mercury	0.07	0.06	15%	None

Compound	AOC-35-10 mg/kg	DUP-AOC-35-06 mg/kg	RPD	Qualifier
Arsenic	3.6	3.4	6%	None
Beryllium	3.4	3.0	13%	None
Chromium	22	21	5%	None
Copper	54	49	10%	None
Lead	18	16	12%	None
Nickel	15	14	7%	None
Thallium	0.6 U	0.24	NC	None
Zinc	49	50	2%	None

Compound Quantitation - No discrepancies were identified.

1

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-019

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 81 Batch #: 82604

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.6	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	3.4			MS	
7440-41-7	Beryllium	1.3	~~J~~		MS	K
7440-43-9	Cadmium	2.6	U		MS	
7440-47-3	Chromium	76		~~N~~	MS	K
7440-50-8	Copper	36		~~N~~	MS	K
7439-92-1	Lead	20			MS	
7439-97-6	Mercury	0.05	J		MS	
7440-02-0	Nickel	34			MS	
7782-49-2	Selenium	2.6	U		MS	
7440-22-4	Silver	2.6	U		MS	
7440-28-0	Thallium	0.34	J		MS	
7440-66-6	Zinc	100			MS	J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 10/8/10

2

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-020

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 83 Batch #: 82604

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.1	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	3.2			MS	
7440-41-7	Beryllium	1.3	~~J~~		MS	K
7440-43-9	Cadmium	2.1	U		MS	
7440-47-3	Chromium	46		~~N~~	MS	K
7440-50-8	Copper	27		~~N~~	MS	K
7439-92-1	Lead	13			MS	
7439-97-6	Mercury	0.05	J		MS	
7440-02-0	Nickel	11			MS	
7782-49-2	Selenium	2.1	U		MS	
7440-22-4	Silver	2.1	U		MS	
7440-28-0	Thallium	0.22	J		MS	
7440-66-6	Zinc	41			MS	J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 10/8/10

FORM IA - IN SW6020

3

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-3

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-021

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 84 Batch #: 82604

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.2	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	3.7			MS	
7440-41-7	Beryllium	1.7	~~J~~		MS	K
7440-43-9	Cadmium	2.2	U		MS	
7440-47-3	Chromium	61		~~N~~	MS	K
7440-50-8	Copper	22		~~N~~	MS	K
7439-92-1	Lead	13			MS	
7439-97-6	Mercury	0.05	J		MS	
7440-02-0	Nickel	17			MS	
7782-49-2	Selenium	2.2	U		MS	
7440-22-4	Silver	2.2	U		MS	
7440-28-0	Thallium	0.4	U		MS	
7440-66-6	Zinc	51			MS	J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW

FORM IA - IN 10/8/10 SW6020

4

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-022

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 83 Batch #: 82604

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.3	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	4.4			MS	
7440-41-7	Beryllium	2.2	~~J~~		MS	K
7440-43-9	Cadmium	2.3	U		MS	
7440-47-3	Chromium	30		~~N~~	MS	K
7440-50-8	Copper	43		~~N~~	MS	K
7439-92-1	Lead	16			MS	
7439-97-6	Mercury	0.09	U		MS	
7440-02-0	Nickel	15			MS	
7782-49-2	Selenium	2.3	U		MS	
7440-22-4	Silver	2.3	U		MS	
7440-28-0	Thallium	0.53			MS	
7440-66-6	Zinc	67			MS	J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW

FORM IA - IN 10/8/10 SW6020

5

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-5

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-023

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 85 Batch #: 82638

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.0	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	4.0			MS	
7440-41-7	Beryllium	1.5	~~J~~		MS	J
7440-43-9	Cadmium	2.0	U		MS	
7440-47-3	Chromium	35			MS	
7440-50-8	Copper	20			MS	
7439-92-1	Lead	14			MS	
7439-97-6	Mercury	0.08	U		MS	
7440-02-0	Nickel	13			MS	
7782-49-2	Selenium	2.0	U		MS	
7440-22-4	Silver	2.0	U		MS	
7440-28-0	Thallium	0.28	J		MS	
7440-66-6	Zinc	51			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 10/8/10

6

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-6

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-024

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 91 Batch #: 82638

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.5	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	4.9			MS	
7440-41-7	Beryllium	2.5	~~U~~		MS	UJ
7440-43-9	Cadmium	2.5	U		MS	
7440-47-3	Chromium	16			MS	
7440-50-8	Copper	13			MS	
7439-92-1	Lead	52			MS	
7439-97-6	Mercury	0.07	J		MS	
7440-02-0	Nickel	7.6			MS	
7782-49-2	Selenium	2.5	U		MS	
7440-22-4	Silver	2.5	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	33			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW

FORM IA - IN 10/8/10 SW6020

7

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-7

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-025

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 86 Batch #: 82638

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.4	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	5.7			MS	
7440-41-7	Beryllium	1.5	~~J~~		MS	J
7440-43-9	Cadmium	2.4	U		MS	
7440-47-3	Chromium	31			MS	
7440-50-8	Copper	20			MS	
7439-92-1	Lead	21			MS	
7439-97-6	Mercury	0.46			MS	
7440-02-0	Nickel	14			MS	
7782-49-2	Selenium	2.4	U		MS	
7440-22-4	Silver	2.4	U		MS	
7440-28-0	Thallium	0.26	J		MS	
7440-66-6	Zinc	62			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW

FORM IA - IN 10/8/10 SW6020

8

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-8

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-026

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 85 Batch #: 82638

Concentration Units (ug/L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.2	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	5.4			MS	
7440-41-7	Beryllium	1.6	~~J~~		MS	J
7440-43-9	Cadmium	2.2	U		MS	
7440-47-3	Chromium	41			MS	
7440-50-8	Copper	21			MS	
7439-92-1	Lead	15			MS	
7439-97-6	Mercury	0.07	J		MS	
7440-02-0	Nickel	18			MS	
7782-49-2	Selenium	2.2	U		MS	
7440-22-4	Silver	2.2	U		MS	
7440-28-0	Thallium	0.35	J		MS	
7440-66-6	Zinc	79			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW

FORM IA - IN 10/8/10 SW6020

9

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-9

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No : 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-027

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 75 Batch #: 82638

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.2	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	2.8			MS	
7440-41-7	Beryllium	2.8	~~J~~		MS	J
7440-43-9	Cadmium	3.2	U		MS	
7440-47-3	Chromium	78			MS	
7440-50-8	Copper	66			MS	
7439-92-1	Lead	39			MS	
7439-97-6	Mercury	0.07	J		MS	
7440-02-0	Nickel	23			MS	
7782-49-2	Selenium	3.2	U		MS	
7440-22-4	Silver	3.2	U		MS	
7440-28-0	Thallium	0.32	J		MS	
7440-66-6	Zinc	65			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

 MW 10/8/10 SW6020

10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No.: 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-028

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 82 Batch #: 82638

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.8	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	3.6			MS	
7440-41-7	Beryllium	3.4			MS	J
7440-43-9	Cadmium	2.8	U		MS	
7440-47-3	Chromium	22			MS	
7440-50-8	Copper	54			MS	
7439-92-1	Lead	18			MS	
7439-97-6	Mercury	0.11	U		MS	
7440-02-0	Nickel	15			MS	
7782-49-2	Selenium	2.8	U		MS	
7440-22-4	Silver	2.8	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	49			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

lw 10/8/10

11

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-11

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-029

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 83 Batch #: 82638

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.3	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	2.7			MS	
7440-41-7	Beryllium	2.3	~~U~~		MS	UJ
7440-43-9	Cadmium	2.3	U		MS	
7440-47-3	Chromium	16			MS	
7440-50-8	Copper	22			MS	
7439-92-1	Lead	13			MS	
7439-97-6	Mercury	0.06	J		MS	
7440-02-0	Nickel	7.7			MS	
7782-49-2	Selenium	2.3	U		MS	
7440-22-4	Silver	2.3	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	34			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
10/8/10

12

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-12

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No : 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-030

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 82 Batch #: 82638

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.9	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	4.0			MS	
7440-41-7	Beryllium	2.2	~~U~~		MS	J
7440-43-9	Cadmium	2.9	U		MS	
7440-47-3	Chromium	45			MS	
7440-50-8	Copper	33			MS	
7439-92-1	Lead	12			MS	
7439-97-6	Mercury	0.11	U		MS	
7440-02-0	Nickel	17			MS	
7782-49-2	Selenium	2.9	U		MS	
7440-22-4	Silver	2.9	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	46			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 10/8/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-13 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-031

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 85 Batch #: 82638

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.3	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	2.2			MS	
7440-41-7	Beryllium	1.4	~~U~~		MS	J
7440-43-9	Cadmium	2.3	U		MS	
7440-47-3	Chromium	22			MS	
7440-50-8	Copper	7.2			MS	
7439-92-1	Lead	11			MS	
7439-97-6	Mercury	0.07	J		MS	
7440-02-0	Nickel	14			MS	
7782-49-2	Selenium	2.3	U		MS	
7440-22-4	Silver	2.3	U		MS	
7440-28-0	Thallium	0.37	J		MS	
7440-66-6	Zinc	41			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
10/8/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-14

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No.: 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-032

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 85 Batch #: 82638

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.5	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	3.7			MS	
7440-41-7	Beryllium	2.5	~~U~~		MS	UJ
7440-43-9	Cadmium	2.5	U		MS	
7440-47-3	Chromium	19			MS	
7440-50-8	Copper	13			MS	
7439-92-1	Lead	12			MS	
7439-97-6	Mercury	0.10	U		MS	
7440-02-0	Nickel	17			MS	
7782-49-2	Selenium	2.5	U		MS	
7440-22-4	Silver	2.5	U		MS	
7440-28-0	Thallium	0.26	J		MS	
7440-66-6	Zinc	58			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 10/8/10

15

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-15

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-033

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 83 Batch #: 82638

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.9	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	2.2			MS	
7440-41-7	Beryllium	1.7	~~J~~		MS	J
7440-43-9	Cadmium	2.9	U		MS	
7440-47-3	Chromium	25			MS	
7440-50-8	Copper	15			MS	
7439-92-1	Lead	15			MS	
7439-97-6	Mercury	0.09	J		MS	
7440-02-0	Nickel	18			MS	
7782-49-2	Selenium	2.9	U		MS	
7440-22-4	Silver	2.9	U		MS	
7440-28-0	Thallium	0.51	J		MS	
7440-66-6	Zinc	120			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
10/8/10

FORM IA - IN SW6020

16

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-16

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No : 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-034

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 85 Batch #: 82638

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.1	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	2.9			MS	
7440-41-7	Beryllium	2.1	~~U~~		MS	UJ
7440-43-9	Cadmium	2.1	U		MS	
7440-47-3	Chromium	12			MS	
7440-50-8	Copper	15			MS	
7439-92-1	Lead	8.3			MS	
7439-97-6	Mercury	0.09	U		MS	
7440-02-0	Nickel	6.1			MS	
7782-49-2	Selenium	2.1	U		MS	
7440-22-4	Silver	2.1	U		MS	
7440-28-0	Thallium	0.27	J		MS	
7440-66-6	Zinc	34			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 10/8/10

FORM IA - IN SW6020

17

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-17

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-035

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 82 Batch #: 82638

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.6	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	3.3			MS	
7440-41-7	Beryllium	2.1	~~J~~		MS	J
7440-43-9	Cadmium	2.6	U		MS	
7440-47-3	Chromium	22			MS	
7440-50-8	Copper	30			MS	
7439-92-1	Lead	11			MS	
7439-97-6	Mercury	0.10	U		MS	
7440-02-0	Nickel	8.3			MS	
7782-49-2	Selenium	2.6	U		MS	
7440-22-4	Silver	2.6	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	65			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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FORM IA - IN SW6020

18

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-18

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-036

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 85 Batch #: 82638

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.6	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	2.7			MS	
7440-41-7	Beryllium	1.4	~~J~~		MS	J
7440-43-9	Cadmium	2.6	U		MS	
7440-47-3	Chromium	38			MS	
7440-50-8	Copper	34			MS	
7439-92-1	Lead	9.9			MS	
7439-97-6	Mercury	0.11	U		MS	
7440-02-0	Nickel	16			MS	
7782-49-2	Selenium	2.6	U		MS	
7440-22-4	Silver	2.6	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	68			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

UW

FORM IA - IN 10/8/10 SW6020

19

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-19

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-037

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 84 Batch #: 82638

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.9	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	6.1			MS	
7440-41-7	Beryllium	1.9	~~J~~		MS	J
7440-43-9	Cadmium	2.9	U		MS	
7440-47-3	Chromium	300			MS	
7440-50-8	Copper	26			MS	
7439-92-1	Lead	13			MS	
7439-97-6	Mercury	0.12	U		MS	
7440-02-0	Nickel	26			MS	
7782-49-2	Selenium	2.9	U		MS	
7440-22-4	Silver	2.9	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	46			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

KW 10/8/10

FORM IA - IN SW6020

20

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-20

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-038

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 83 Batch #: 82638

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.4	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	2.1			MS	
7440-41-7	Beryllium	2.7			MS	J
7440-43-9	Cadmium	2.4	U		MS	
7440-47-3	Chromium	20			MS	
7440-50-8	Copper	23			MS	
7439-92-1	Lead	9.2			MS	
7439-97-6	Mercury	0.10	U		MS	
7440-02-0	Nickel	10			MS	
7782-49-2	Selenium	2.4	U		MS	
7440-22-4	Silver	2.4	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	42			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 10/8/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-21

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10052015
Matrix (soil/water): SOIL Lab Sample ID: 10052015-039
Level (low/med): LOW Date Received: 05/20/2010
% Solids: 84 Batch #: 82638

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.9	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	5.8			MS	
7440-41-7	Beryllium	2.9	~~U~~		MS	UJ
7440-43-9	Cadmium	2.9	U		MS	
7440-47-3	Chromium	23			MS	
7440-50-8	Copper	14			MS	
7439-92-1	Lead	22			MS	
7439-97-6	Mercury	0.12	U		MS	
7440-02-0	Nickel	16			MS	
7782-49-2	Selenium	2.9	U		MS	
7440-22-4	Silver	2.9	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	38			MS	

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

 HW 10/8/10 SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-22

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052015
Matrix (soil/water): SOIL Lab Sample ID: 10052015-040
Level (low/med): LOW Date Received: 05/20/2010
% Solids: 87 Batch #: 82638

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.3	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	5.6			MS	
7440-41-7	Beryllium	2.3	~~U~~		MS	UJ
7440-43-9	Cadmium	2.3	U		MS	
7440-47-3	Chromium	29			MS	
7440-50-8	Copper	20			MS	
7439-92-1	Lead	22			MS	
7439-97-6	Mercury	0.05	J		MS	
7440-02-0	Nickel	12			MS	
7782-49-2	Selenium	2.3	U		MS	
7440-22-4	Silver	2.3	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	49			MS	

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

MW 10/8/10

23

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-23

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No.: 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-041

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 86 Batch #: 82638

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.7	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	3.4			MS	
7440-41-7	Beryllium	2.7	~~U~~		MS	UJ
7440-43-9	Cadmium	2.7	U		MS	
7440-47-3	Chromium	35			MS	
7440-50-8	Copper	69			MS	
7439-92-1	Lead	12			MS	
7439-97-6	Mercury	0.11	U		MS	
7440-02-0	Nickel	14			MS	
7782-49-2	Selenium	2.7	U		MS	
7440-22-4	Silver	2.7	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	49			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW

FORM IA - IN 10/8/10 SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-24

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-042

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 85 Batch #: 82638

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.6	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	4.9			MS	
7440-41-7	Beryllium	2.6	~~U~~		MS	UJ
7440-43-9	Cadmium	2.6	U		MS	
7440-47-3	Chromium	34			MS	
7440-50-8	Copper	18			MS	
7439-92-1	Lead	13			MS	
7439-97-6	Mercury	0.10	U		MS	
7440-02-0	Nickel	13			MS	
7782-49-2	Selenium	2.6	U		MS	
7440-22-4	Silver	2.6	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	45			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-25

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-043

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 84 Batch #: 82639

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.5	U		MS	
7440-38-2	Arsenic	1.6			MS	
7440-41-7	Beryllium	1.6	~~J~~		MS	J
7440-43-9	Cadmium	2.5	U		MS	
7440-47-3	Chromium	23		~~N~~	MS	L
7440-50-8	Copper	24			MS	
7439-92-1	Lead	12			MS	
7439-97-6	Mercury	0.10	U		MS	
7440-02-0	Nickel	15			MS	
7782-49-2	Selenium	2.5	U		MS	
7440-22-4	Silver	2.5	U		MS	
7440-28-0	Thallium	0.37	J		MS	
7440-66-6	Zinc	70			MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

26

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-26

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-044

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 83 Batch #: 82639

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.8	U		MS	
7440-38-2	Arsenic	3.4			MS	
7440-41-7	Beryllium	2.8	~~U~~		MS	UJ
7440-43-9	Cadmium	2.8	U		MS	
7440-47-3	Chromium	21		~~N~~	MS	L
7440-50-8	Copper	19			MS	
7439-92-1	Lead	12			MS	
7439-97-6	Mercury	0.11	U		MS	
7440-02-0	Nickel	8.5			MS	
7782-49-2	Selenium	2.8	U		MS	
7440-22-4	Silver	2.8	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	37			MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 10/8/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-27

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No.: 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-045

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 78 Batch #: 82639

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.3	U		MS	
7440-38-2	Arsenic	2.7			MS	
7440-41-7	Beryllium	1.6	~~J~~		MS	J
7440-43-9	Cadmium	2.3	U		MS	
7440-47-3	Chromium	37		~~N~~	MS	L
7440-50-8	Copper	26			MS	
7439-92-1	Lead	70			MS	
7439-97-6	Mercury	0.09	U		MS	
7440-02-0	Nickel	16			MS	
7782-49-2	Selenium	2.3	U		MS	
7440-22-4	Silver	2.3	U		MS	
7440-28-0	Thallium	0.27	J		MS	
7440-66-6	Zinc	57			MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW

FORM IA - IN 10/8/10 SW6020

28

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-35-05

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-046

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 86 Batch #: 82639

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.9	U		MS	
7440-38-2	Arsenic	2.7			MS	
7440-41-7	Beryllium	2.9	~~U~~		MS	UJ
7440-43-9	Cadmium	2.9	U		MS	
7440-47-3	Chromium	24		~~N~~	MS	L
7440-50-8	Copper	9.4			MS	
7439-92-1	Lead	13			MS	
7439-97-6	Mercury	0.06	J		MS	
7440-02-0	Nickel	15			MS	
7782-49-2	Selenium	2.9	U		MS	
7440-22-4	Silver	2.9	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	42			MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-AOC-35-06

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10052015

Matrix (soil/water): SOIL Lab Sample ID: 10052015-047

Level (low/med): LOW Date Received: 05/20/2010

% Solids: 81 Batch #: 82639

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.2	U		MS	
7440-38-2	Arsenic	3.4			MS	
7440-41-7	Beryllium	3.0			MS	J
7440-43-9	Cadmium	2.2	U		MS	
7440-47-3	Chromium	21		~~N~~	MS	L
7440-50-8	Copper	49			MS	
7439-92-1	Lead	16			MS	
7439-97-6	Mercury	0.09	U		MS	
7440-02-0	Nickel	14			MS	
7782-49-2	Selenium	2.2	U		MS	
7440-22-4	Silver	2.2	U		MS	
7440-28-0	Thallium	0.24	J		MS	
7440-66-6	Zinc	50			MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 10/8/10

ENVIRONMENTAL
Data Services, Inc.

GASOLINE RANGE ORGANICS (GRO)
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10052015

Client: ARGO Systems, Glen Burnie, MD Date: October 8, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-28-UST-01	10052015-003	Soil
2	AOC-28-UST-02	10052015-004	Soil
3	AOC-7-2	10052015-005	Soil
4	AOC-7-5	10052015-006	Soil
5	AOC-7-9	10052015-007	Soil
6	AOC-7-7	10052015-008	Soil
7	AOC-7-4	10052015-009	Soil
8	AOC-7-8	10052015-010	Soil
9	DUP-AOC-7-01	10052015-011	Soil
10	DUP-AOC-7-02	10052015-012	Soil
11	AOC-7-11	10052015-013	Soil
11MS	AOC-7-11MS	10052015-013MS	Soil
11MSD	AOC-7-11MSD	10052015-013MSD	Soil
12	AOC-7-10	10052015-014	Soil
13	AOC-7-6	10052015-015	Soil
13MS	AOC-7-6MS	10052015-015MS	Soil
13MSD	AOC-7-6MSD	10052015-015MSD	Soil
14	AOC-7-3	10052015-016	Soil
15	DUP-AOC-7-03	10052015-017	Soil
16	AOC-7-1	10052015-018	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for soil samples.

Initial Calibration - The initial calibrations exhibited acceptable %RSD values.

Calibration Verification - The continuing calibrations exhibited acceptable %D values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD samples exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS sample(s) exhibited acceptable %R values.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-7-7 ug/kg	DUP-AOC-7-01 ug/kg	RPD	Qualifier
TPH-GRO	56	110 U	NC	None

Compound	AOC-7-8 ug/kg	DUP-AOC-7-02 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-7-10 ug/kg	DUP-AOC-7-03 ug/kg	RPD	Qualifier
TPH-GRO	64	110 U	NC	None

Compound Identification - Retention times were acceptable and no further action was taken.

Compound Quantitation - No discrepancies were identified.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO
AOC-28-UST-01

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82561 Mod Ref No.: _____ SDG No.: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-003

Sample wt/vol 4.09 (g/mL) g Lab File ID: 10052008

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 4 Date Analyzed: 05/21/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	130	U

fw
10/8/10

2

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-UST-02

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82561 Mod. Ref. No.: _____ SDG No.: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-004

Sample wt/vol 4.63 (g/mL) g Lab File ID: 10052009

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 5 Date Analyzed: 05/21/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	110	U

lw
10/8/10

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-7-2

3

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82561 Mod. Ref. No : _____ SDG No. : 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-005

Sample wt/vol 5.17 (g/mL) g Lab File ID: 10052010

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 5 Date Analyzed: 05/21/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (μ L) Soil Aliquot Volume: _____ (μ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	100	U

KW
10/8/10

4

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-5

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82561 Mod. Ref. No : _____ SDG No. : 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-006

Sample wt/vol 5.26 (g/mL) g Lab File ID: 10052011

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 7 Date Analyzed: 05/21/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	51	J

MW 10/8/10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-9

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82561 Mod. Ref. No.: _____ SDG No.: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-007

Sample wt/vol 4.25 (g/mL) g Lab File ID: 10052012

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 7 Date Analyzed: 05/21/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	130	U

10/8/10

6

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-7

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82561 Mod. Ref. No.: _____ SDG No. : 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-008

Sample wt/vol 5.15 (g/mL) g Lab File ID: 10052013

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec 5 Date Analyzed: 05/21/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	56	J

JCW 10/8/10

7

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82564 Mod. Ref. No.: _____ SDG No.: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-009

Sample wt/vol 5.50 (g/mL) g Lab File ID: 10052026

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 5 Date Analyzed: 05/22/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	96	U

Ad
10/8/10

8

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-8

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82564 Mod. Ref. No.: _____ SDG No.: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-010

Sample wt/vol 5.02 (g/mL) g Lab File ID: 10052027

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 6 Date Analyzed: 05/22/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (μ L) Soil Aliquot Volume: _____ (μ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	110	U

NW
10/8/10

9

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-7-01

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82564 Mod. Ref. No.: _____ SDG No.: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-011

Sample wt/vol 4.66 (g/mL) g Lab File ID: 10052028

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 5 Date Analyzed: 05/22/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	110	U

MW
10/8/10

10

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-7-02

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82564 Mod Ref No.: _____ SDG No : 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-012

Sample wt/vol 4.20 (g/mL) g Lab File ID: 10052029

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec 6 Date Analyzed: 05/22/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	130	U

NW
10/8/10

11

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-11 MSMSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82561 Mod. Ref. No.: _____ SDG No.: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-013

Sample wt/vol 4.51 (g/mL) g Lab File ID: 10052014

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 7 Date Analyzed: 05/21/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	110	J

NW
10/8/10

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82564 Mod Ref. No.: _____ SDG No: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-014

Sample wt/vol 4.49 (g/mL) g Lab File ID: 10052030

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec 5 Date Analyzed: 05/22/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	64	J

MW 10/8/10

13

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-6 MSMSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82564 Mod. Ref. No.: _____ SDG No. : 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-015

Sample wt/vol 4.83 (g/mL) g Lab File ID: 10052035

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 6 Date Analyzed: 05/22/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	110	U

MW
10/8/10

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-3

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82564 Mod. Ref. No.: _____ SDG No. : 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-016

Sample wt/vol 4.45 (g/mL) g Lab File ID: 10052032

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec 5 Date Analyzed: 05/22/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	570	

MW
10/8/10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-7-03

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82564 Mod. Ref. No.: _____ SDG No : 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-017

Sample wt/vol 4.74 (g/mL) g Lab File ID: 10052033

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec. 4 Date Analyzed: 05/22/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	110	U

lw
10/8/10

16

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-7-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82564 Mod. Ref. No.: _____ SDG No.: 10052015

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10052015-018

Sample wt/vol 5.04 (g/mL) g Lab File ID: 10052034

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2010

% Moisture: not dec 9 Date Analyzed: 05/22/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	2,100	

MW 10/8/10

ENVIRONMENTAL
Data Services, Inc.

DIESEL RANGE ORGANICS (DRO)
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10052015

Client: ARGO Systems, Glen Burnie, MD Date: October 8, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: N(b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-28-UST-01	10052015-003	Soil
2	AOC-28-UST-02	10052015-004	Soil
3	AOC-7-2	10052015-005	Soil
4	AOC-7-5	10052015-006	Soil
5	AOC-7-9	10052015-007	Soil
6	AOC-7-7	10052015-008	Soil
7	AOC-7-4	10052015-009	Soil
8	AOC-7-8	10052015-010	Soil
9	DUP-AOC-7-01	10052015-011	Soil
10	DUP-AOC-7-02	10052015-012	Soil
11	AOC-7-11	10052015-013	Soil
11MS	AOC-7-11MS	10052015-013MS	Soil
11MSD	AOC-7-11MSD	10052015-013MSD	Soil
12	AOC-7-10	10052015-014	Soil
13	AOC-7-6	10052015-015	Soil
13MS	AOC-7-6MS	10052015-015MS	Soil
13MSD	AOC-7-6MSD	10052015-015MSD	Soil
14	AOC-7-3	10052015-016	Soil
15	DUP-AOC-7-03	10052015-017	Soil
16	AOC-7-1	10052015-018	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days.

Initial Calibration - The initial calibrations exhibited acceptable %RSD values.

Calibration Verification - The continuing calibrations exhibited acceptable %D values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD samples exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS sample(s) exhibited acceptable %R values.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-7-7 mg/kg	DUP-AOC-7-01 mg/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-7-8 mg/kg	DUP-AOC-7-02 mg/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-7-10 mg/kg	DUP-AOC-7-03 mg/kg	RPD	Qualifier
None	ND	ND	-	-

Compound Identification - Retention times were acceptable and no further action was taken.

Compound Quantitation - EDS sample ID# 16 was analyzed at a 10X dilution due to high concentrations of TPH-DRO.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-28-UST-01

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82609 Mod. Ref No.: _____ SDG No.: 10052015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052015-003

Sample wt/vol: 30.04 (g/mL):g Lab File ID: 10052529.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 4 Decanted: (Y/N) N Date Received: 05/20/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	10	U

MW
10/8/10

2

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-28-UST-02

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82609 Mod. Ref No.: _____ SDG No.: 10052015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052015-004

Sample wt/vol: 30.24 (g/mL):g Lab File ID: 10052535.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5 Decanted: (Y/N) N Date Received: 05/20/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	10	U

LW 10/8/10

(1) Cannot be separated from Diphenylamine

SW8015DRO

3

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-7-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82609 Mod. Ref No : _____ SDG No.: 10052015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052015-005

Sample wt/vol: 30.19 (g/mL):g Lab File ID: 10052537.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5 Decanted: (Y/N) N Date Received: 05/20/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	10	U

MW
10/8/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-7-5

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82609 Mod. Ref No.: _____ SDG No.: 10052015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052015-006

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10052539.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7 Decanted: (Y/N) N Date Received: 05/20/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/25/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	11	U

hw 10/8/10

(1) Cannot be separated from Diphenylamine

5

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-7-9

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82609 Mod. Ref No.: _____ SDG No.: 10052015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052015-007

Sample wt/vol: 30.03 (g/mL): g Lab File ID: 10052541.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7 Decanted: (Y/N) N Date Received: 05/20/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	11	U

LW
10/8/10

6

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO

AOC-7-7

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82609 Mod. Ref No.: _____ SDG No.: 10052015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052015-008

Sample wt/vol: 30.11 (g/mL): g Lab File ID: 10052545.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5 Decanted: (Y/N) N Date Received: 05/20/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	10	U

MW
10/8/10

(1) Cannot be separated from Diphenylamine

SW8015DRO

7

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-7-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82609 Mod. Ref No.: _____ SDG No.: 10052015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052015-009

Sample wt/vol: 30.27 (g/mL):g Lab File ID: 10052548.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5 Decanted: (Y/N) N Date Received: 05/20/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	10	U

NW
10/8/10

8

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO

AOC-7-8

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82609 Mod Ref No.: _____ SDG No : 10052015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052015-010

Sample wt/vol: 30.17 (g/mL): g Lab File ID: 10052542.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6 Decanted: (Y/N) N Date Received: 05/20/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	11	U

kw
10/8/10

(1) Cannot be separated from Diphenylamine

SW8015DRO

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
DUP-AOC-7-01

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82609 Mod. Ref No : _____ SDG No : 10052015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052015-011

Sample wt/vol: 30.14 (g/mL): g Lab File ID: 10052525.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5 Decanted: (Y/N) N Date Received: 05/20/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/25/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	10	U

NW
10/8/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-AOC-7-02

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82609 Mod Ref No : _____ SDG No.: 10052015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052015-012

Sample wt/vol: 30.21 (g/mL):g Lab File ID: 10052546.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6 Decanted: (Y/N) N Date Received: 05/20/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/25/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	11	U

NW
10/8/10

(1) Cannot be separated from Diphenylamine

11

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO

AOC-7-11 MSMSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82609 Mod. Ref No : _____ SDG No.: 10052015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052015-013

Sample wt/vol: 30.11 (g/mL):g Lab File ID: 10052532.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7 Decanted: (Y/N) N Date Received: 05/20/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/25/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	11	U

KW
10/8/10

12

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-7-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82609 Mod Ref No.: _____ SDG No : 10052015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052015-014

Sample wt/vol: 30.18 (g/mL):g Lab File ID: 10052547.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5 Decanted: (Y/N) N Date Received: 05/20/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	10	U

NW
10/8/10

(1) Cannot be separated from Diphenylamine

SW8015DRO

13

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-7-6 MSMSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82645 Mod. Ref No.: _____ SDG No.: 10052015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052015-015

Sample wt/vol: 30.04 (g/mL):g Lab File ID: 10052610.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6 Decanted: (Y/N) CLEAR Date Received: 05/20/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/26/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	11	U

LW
10/8/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-7-3

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82645 Mod. Ref No.: _____ SDG No.: 10052015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052015-016

Sample wt/vol: 30.38 (g/mL): g Lab File ID: 10052612.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5 Decanted: (Y/N) CLEAR Date Received: 05/20/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/26/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/26/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	140	

NW
10/8/10

(1) Cannot be separated from Diphenylamine

15

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

DUP-AOC-7-03

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82645 Mod. Ref No.: _____ SDG No.: 10052015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052015-017

Sample wt/vol: 30.57 (g/mL): g Lab File ID: 10052613.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 4 Decanted: (Y/N) CLEAR Date Received: 05/20/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/26/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	10	U

DW
10/8/10

1b

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-7-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82645 Mod. Ref No : _____ SDG No : 10052015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10052015-018

Sample wt/vol: 30.18 (g/mL):g Lab File ID: 10052616.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9 Decanted: (Y/N) CLEAR Date Received: 05/20/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/26/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/26/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	660	

uw
10/8/10

(1) Cannot be separated from Diphenylamine

SW8015DRO

ENVIRONMENTAL
Data Services, Inc.

VOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051907

Client: ARGO Systems, Glen Burnie, MD Date: October 7, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-35-29	10051907-001	Soil
2	AOC-35-38	10051907-002	Soil
3	AOC-35-30	10051907-003	Soil
4	AOC-35-34	10051907-004	Soil
5	AOC-35-35	10051907-005	Soil
6	AOC-35-33	10051907-006	Soil
7	AOC-35-32	10051907-007	Soil
8	IA(689)-1	10051907-008	Soil
9	AOC-35-31	10051907-009	Soil
10	AOC-45A-28	10051907-010	Soil
11	AOC-45A-54	10051907-011	Soil
12	AOC-45A-69	10051907-012	Soil
13	AOC-45A-76	10051907-013	Soil
14	DUP-AOC-35-03	10051907-014	Soil
15	AOC-14-3-0-2	10051907-016	Soil
16	AOC-14-3-2-4	10051907-017	Soil
17	AOC-14-4-2-4	10051907-019	Soil
17MS	AOC-14-4-2-4MS	10051907-019MS	Soil
17MSD	AOC-14-4-2-4MSD	10051907-019MSD	Soil
18	AOC-14-5-0-2	10051907-020	Soil
19	AOC-14-5-2-4	10051907-021	Soil
20	DUP-AOC-14-01	10051907-022	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for soil samples.

GC/MS Tuning - All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values except the following.

ICAL Date	Compound	%RSD/RRF	Qualifier	Affected Samples
05/07/10	4-Methyl-2-pentanone	0.044 RRF	L/R	All samples

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
05/21/10 (0945)	4-Methyl-2-pentanone	0.041 RRF	None	See ICAL
05/21/10 (2137)	2-Butanone	32.7%/0.035 RRF	L/R	15-20
	4-Methyl-2-pentanone	0.036 RRF	None	See ICAL

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier
17	Acetone	12%/0%/200	L/R
	Tetrachloroethene	OK/OK/31	None for RPD alone
	m,p-Xylenes	OK/OK/32	
	Styrene	OK/OK/31	
	o-Xylene	OK/OK/32	
	Isopropylbenzene	OK/OK/47	
	n-Propylbenzene	OK/OK/55	
	1,3,5-Trimethylbenzene	OK/OK/59	
	1,2,4-Trimethylbenzene	OK/OK/55	
	n-Butylbenzene	OK/OK/94	

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Trip, Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-35-30 ug/kg	DUP-AOC-35-03 ug/kg	RPD	Qualifier
Acetone	23	33	36%	None

Compound	AOC-14-3-0-2 ug/kg	DUP-AOC-14-01 ug/kg	RPD	Qualifier
Acetone	43	55	24%	None

Tentatively Identified Compounds (TICs) - TICs were not reported with this data package.

Compound Quantitation - No discrepancies were identified.

1

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-29

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82569 Mod Ref. No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-001

Sample wt/vol 5.74 (g/mL) g Lab File ID: 10052108

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 12 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
67-64-1	Acetone	74	
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl-t-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	20	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-15-0	Carbon Disulfide	10	U
79-01-6	Trichloroethene	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-Pentanone	20	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
108-88-3	Toluene	5	U

RW 10/7/10

SW8260B

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-29

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82569 Mod Ref No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-001

Sample wt/vol 5.74 (g/mL) g Lab File ID: 10052108

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 12 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	10	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	40	U

ms 10/7/10

SW8260B

2

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-28

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82569 Mod Ref No.: _____ SDG No : 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-002

Sample wt/vol 4.97 (g/mL) g Lab File ID: 10052109

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec 24 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	7	U
75-01-4	Vinyl Chloride	7	U
74-83-9	Bromomethane	7	U
75-00-3	Chloroethane	7	U
67-64-1	Acetone	17	J
75-35-4	1,1-Dichloroethene	7	U
75-09-2	Methylene Chloride	7	U
156-60-5	trans-1,2-Dichloroethene	7	U
1634-04-4	Methyl-t-butyl ether	7	U
75-34-3	1,1-Dichloroethane	7	U
78-93-3	2-Butanone	26	U
156-59-2	cis-1,2-Dichloroethene	7	U
67-66-3	Chloroform	7	U
71-55-6	1,1,1-Trichloroethane	7	U
107-06-2	1,2-Dichloroethane	7	U
56-23-5	Carbon Tetrachloride	7	U
71-43-2	Benzene	7	U
78-87-5	1,2-Dichloropropane	7	U
75-15-0	Carbon Disulfide	13	U
79-01-6	Trichloroethene	7	U
75-27-4	Bromodichloromethane	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
108-10-1	4-Methyl-2-Pentanone	26	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	7	U
79-00-5	1,1,2-Trichloroethane	7	U
108-88-3	Toluene	7	U

nw 10/7/10

SW8260B

2

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-28

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82569 Mod Ref. No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-002

Sample wt/vol 4.97 (g/mL) g Lab File ID: 10052109

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 24 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	7	U
124-48-1	Dibromochloromethane	7	U
75-25-2	Bromoform	7	U
127-18-4	Tetrachloroethene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
108-38-3	m,p-Xylenes	13	U
100-42-5	Styrene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U
95-47-6	o-Xylene	7	U
98-82-8	Isopropylbenzene	7	U
103-65-1	n-Propylbenzene	7	U
108-67-8	1,3,5-Trimethylbenzene	7	U
95-63-6	1,2,4-Trimethylbenzene	7	U
104-51-8	n-Butylbenzene	7	U
96-12-8	1,2-Dibromo-3-Chloropropane	53	U

NW 10/7/10

SW8260B

3

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-30

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82569 Mod. Ref. No : _____ SDG No : 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-003

Sample wt/vol 6.01 (g/mL) g Lab File ID: 10052110

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec 16 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
67-64-1	Acetone	23	
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl-t-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	20	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-15-0	Carbon Disulfide	10	U
79-01-6	Trichloroethene	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-Pentanone	20	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
108-88-3	Toluene	5	U

MW 10/7/10

SW8260B

3

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-30

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82569 Mod. Ref. No : _____ SDG No. : 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-003

Sample wt/vol 6.01 (g/mL) g Lab File ID: 10052110

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 16 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	10	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	40	U

KW 10/7/10

SW8260B

4

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-34

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82569 Mod. Ref. No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-004

Sample wt/vol 4.86 (g/mL) g Lab File ID: 10052111

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 17 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	6	U
75-01-4	Vinyl Chloride	6	U
74-83-9	Bromomethane	6	U
75-00-3	Chloroethane	6	U
67-64-1	Acetone	19	J
75-35-4	1,1-Dichloroethene	6	U
75-09-2	Methylene Chloride	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
1634-04-4	Methyl-t-butyl ether	6	U
75-34-3	1,1-Dichloroethane	6	U
78-93-3	2-Butanone	25	U
156-59-2	cis-1,2-Dichloroethene	6	U
67-66-3	Chloroform	6	U
71-55-6	1,1,1-Trichloroethane	6	U
107-06-2	1,2-Dichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
71-43-2	Benzene	6	U
78-87-5	1,2-Dichloropropane	6	U
75-15-0	Carbon Disulfide	12	U
79-01-6	Trichloroethene	6	U
75-27-4	Bromodichloromethane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-Pentanone	25	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U
108-88-3	Toluene	6	U

KW 10/7/10

SW8260B

4

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-34

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82569 Mod. Ref. No.: _____ SDG No : 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-004

Sample wt/vol 4.86 (g/mL) g Lab File ID: 10052111

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 17 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	12	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	50	U

NW 10/7/10

5

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-35

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82569 Mod. Ref. No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-005

Sample wt/vol 5.05 (g/mL) g Lab File ID: 10052112

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 12 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	6	U
75-01-4	Vinyl Chloride	6	U
74-83-9	Bromomethane	6	U
75-00-3	Chloroethane	6	U
67-64-1	Acetone	55	
75-35-4	1,1-Dichloroethene	6	U
75-09-2	Methylene Chloride	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
1634-04-4	Methyl-t-butyl ether	6	U
75-34-3	1,1-Dichloroethane	6	U
78-93-3	2-Butanone	23	U
156-59-2	cis-1,2-Dichloroethene	6	U
67-66-3	Chloroform	6	U
71-55-6	1,1,1-Trichloroethane	6	U
107-06-2	1,2-Dichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
71-43-2	Benzene	6	U
78-87-5	1,2-Dichloropropane	6	U
75-15-0	Carbon Disulfide	11	U
79-01-6	Trichloroethene	6	U
75-27-4	Bromodichloromethane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-Pentanone	23	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U
108-88-3	Toluene	6	U

MW 10/7/10

SW8260B

5

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-35

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82569 Mod. Ref. No.: _____ SDG No. : 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-005

Sample wt/vol 5.05 (g/mL) g Lab File ID: 10052112

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec 12 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	11	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	45	U

hw 10/7/10

6

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-33

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82569 Mod. Ref. No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-006

Sample wt/vol 5.82 (g/mL) g Lab File ID: 10052113

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 12 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
67-64-1	Acetone	18	J
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl-t-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	20	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-15-0	Carbon Disulfide	10	U
79-01-6	Trichloroethene	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-Pentanone	20	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
108-88-3	Toluene	5	U

RLW 10/7/10

SW8260B

6

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-33

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82569 Mod. Ref. No.: _____ SDG No: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-006

Sample wt/vol 5.82 (g/mL) g Lab File ID: 10052113

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 12 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	10	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	39	U

NW 10/7/10

SW8260B

7

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-32

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82569 Mod. Ref. No.: _____ SDG No: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-007

Sample wt/vol 5.07 (g/mL) g Lab File ID: 10052114

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 15 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	6	U
75-01-4	Vinyl Chloride	6	U
74-83-9	Bromomethane	6	U
75-00-3	Chloroethane	6	U
67-64-1	Acetone	15	J
75-35-4	1,1-Dichloroethene	6	U
75-09-2	Methylene Chloride	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
1634-04-4	Methyl-t-butyl ether	6	U
75-34-3	1,1-Dichloroethane	6	U
78-93-3	2-Butanone	23	U
156-59-2	cis-1,2-Dichloroethene	6	U
67-66-3	Chloroform	6	U
71-55-6	1,1,1-Trichloroethane	6	U
107-06-2	1,2-Dichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
71-43-2	Benzene	6	U
78-87-5	1,2-Dichloropropane	6	U
75-15-0	Carbon Disulfide	12	U
79-01-6	Trichloroethene	6	U
75-27-4	Bromodichloromethane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-Pentanone	23	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U
108-88-3	Toluene	6	U

NW 10/7/10

SW8260B

7

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-32

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82569 Mod. Ref. No : _____ SDG No. : 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-007

Sample wt/vol 5.07 (g/mL) g Lab File ID: 10052114

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 15 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	12	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	46	U

LW 10/7/10

8

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
1A(689)-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82569 Mod. Ref. No : _____ SDG No. : 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-008

Sample wt/vol 5.05 (g/mL) g Lab File ID: 10052115

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 11 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (μ L) Soil Aliquot Volume: _____ (μ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	6	U
75-01-4	Vinyl Chloride	6	U
74-83-9	Bromomethane	6	U
75-00-3	Chloroethane	6	U
67-64-1	Acetone	99	
75-35-4	1,1-Dichloroethene	6	U
75-09-2	Methylene Chloride	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
1634-04-4	Methyl-t-butyl ether	6	U
75-34-3	1,1-Dichloroethane	6	U
78-93-3	2-Butanone	22	U
156-59-2	cis-1,2-Dichloroethene	6	U
67-66-3	Chloroform	6	U
71-55-6	1,1,1-Trichloroethane	6	U
107-06-2	1,2-Dichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
71-43-2	Benzene	6	U
78-87-5	1,2-Dichloropropane	6	U
75-15-0	Carbon Disulfide	11	U
79-01-6	Trichloroethene	6	U
75-27-4	Bromodichloromethane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-Pentanone	22	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U
108-88-3	Toluene	6	U

MW 10/7/10

SW8260B

8

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
1A(689)-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82569 Mod Ref. No.: _____ SDG No: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-008

Sample wt/vol 5.05 (g/mL) g Lab File ID: 10052115

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec 11 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	11	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	45	U

KW 10/7/10

SW8260B

9

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-31

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82569 Mod. Ref. No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-009

Sample wt/vol 5.42 (g/mL) g Lab File ID: 10052116

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 25 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	6	U
75-01-4	Vinyl Chloride	6	U
74-83-9	Bromomethane	6	U
75-00-3	Chloroethane	6	U
67-64-1	Acetone	19	J
75-35-4	1,1-Dichloroethene	6	U
75-09-2	Methylene Chloride	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
1634-04-4	Methyl-t-butyl ether	6	U
75-34-3	1,1-Dichloroethane	6	U
78-93-3	2-Butanone	25	U
156-59-2	cis-1,2-Dichloroethene	6	U
67-66-3	Chloroform	6	U
71-55-6	1,1,1-Trichloroethane	6	U
107-06-2	1,2-Dichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
71-43-2	Benzene	6	U
78-87-5	1,2-Dichloropropane	6	U
75-15-0	Carbon Disulfide	12	U
79-01-6	Trichloroethene	6	U
75-27-4	Bromodichloromethane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-Pentanone	25	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U
108-88-3	Toluene	6	U

lw 10/7/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-31

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82569 Mod Ref No: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-009

Sample wt/vol 5.42 (g/mL) g Lab File ID: 10052116

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 25 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	12	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	49	U

lew 10/7/10

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1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-45A-28

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82569 Mod. Ref. No.: _____ SDG No: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-010

Sample wt/vol 5.33 (g/mL) g Lab File ID: 10052117

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 15 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	6	U
75-01-4	Vinyl Chloride	6	U
74-83-9	Bromomethane	6	U
75-00-3	Chloroethane	6	U
67-64-1	Acetone	28	
75-35-4	1,1-Dichloroethene	6	U
75-09-2	Methylene Chloride	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
1634-04-4	Methyl-t-butyl ether	6	U
75-34-3	1,1-Dichloroethane	6	U
78-93-3	2-Butanone	22	U
156-59-2	cis-1,2-Dichloroethene	6	U
67-66-3	Chloroform	6	U
71-55-6	1,1,1-Trichloroethane	6	U
107-06-2	1,2-Dichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
71-43-2	Benzene	6	U
78-87-5	1,2-Dichloropropane	6	U
75-15-0	Carbon Disulfide	11	U
79-01-6	Trichloroethene	6	U
75-27-4	Bromodichloromethane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-Pentanone	22	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U
108-88-3	Toluene	6	U

LW 10/7/10

SW8260B

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45A-28

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82569 Mod. Ref. No.: _____ SDG No. : 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-010

Sample wt/vol 5.33 (g/mL) g Lab File ID: 10052117

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 15 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	11	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	44	U

NW 10/7/10

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1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-45A-54

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82569 Mod. Ref. No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-011

Sample wt/vol 5.88 (g/mL) g Lab File ID: 10052118

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec 23 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	6	U
75-01-4	Vinyl Chloride	6	U
74-83-9	Bromomethane	6	U
75-00-3	Chloroethane	6	U
67-64-1	Acetone	62	
75-35-4	1,1-Dichloroethene	6	U
75-09-2	Methylene Chloride	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
1634-04-4	Methyl-t-butyl ether	6	U
75-34-3	1,1-Dichloroethane	6	U
78-93-3	2-Butanone	22	U
156-59-2	cis-1,2-Dichloroethene	6	U
67-66-3	Chloroform	6	U
71-55-6	1,1,1-Trichloroethane	6	U
107-06-2	1,2-Dichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
71-43-2	Benzene	6	U
78-87-5	1,2-Dichloropropane	6	U
75-15-0	Carbon Disulfide	11	U
79-01-6	Trichloroethene	6	U
75-27-4	Bromodichloromethane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-Pentanone	22	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U
108-88-3	Toluene	6	U

MW 10/7/10

SW8260B

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1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-45A-54

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82569 Mod. Ref. No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-011

Sample wt/vol 5.88 (g/mL) g Lab File ID: 10052118

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 23 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	11	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	44	U

MW 10/7/10

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45A-69

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82569 Mod. Ref. No: _____ SDG No: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-012

Sample wt/vol 6.13 (g/mL) g Lab File ID: 10052119

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec 17 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (μ L) Soil Aliquot Volume: _____ (μ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
67-64-1	Acetone	18	J
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl-t-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	20	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-15-0	Carbon Disulfide	10	U
79-01-6	Trichloroethene	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-Pentanone	20	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
108-88-3	Toluene	5	U

LRW 10/7/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45A-69

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82569 Mod. Ref. No.: _____ SDG No: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-012

Sample wt/vol 6.13 (g/mL) g Lab File ID: 10052119

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec 17 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	10	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	39	U

NW 10/7/10

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1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-45A-76

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82569 Mod. Ref. No : _____ SDG No. : 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-013

Sample wt/vol 6.49 (g/mL) g Lab File ID: 10052120

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 15 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
67-64-1	Acetone	27	
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl-t-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	18	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-15-0	Carbon Disulfide	9	U
79-01-6	Trichloroethene	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-Pentanone	18	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
108-88-3	Toluene	5	U

aw 10/7/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45A-76

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82569 Mod. Ref No.: _____ SDG No: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-013

Sample wt/vol 6.49 (g/mL) g Lab File ID: 10052120

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec 15 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	9	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	36	U

Qw 10/7/10

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-35-03

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82569 Mod. Ref. No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-014

Sample wt/vol 4.37 (g/mL) g Lab File ID: 10052121

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 14 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	7	U
75-01-4	Vinyl Chloride	7	U
74-83-9	Bromomethane	7	U
75-00-3	Chloroethane	7	U
67-64-1	Acetone	33	
75-35-4	1,1-Dichloroethene	7	U
75-09-2	Methylene Chloride	7	U
156-60-5	trans-1,2-Dichloroethene	7	U
1634-04-4	Methyl-t-butyl ether	7	U
75-34-3	1,1-Dichloroethane	7	U
78-93-3	2-Butanone	27	U
156-59-2	cis-1,2-Dichloroethene	7	U
67-66-3	Chloroform	7	U
71-55-6	1,1,1-Trichloroethane	7	U
107-06-2	1,2-Dichloroethane	7	U
56-23-5	Carbon Tetrachloride	7	U
71-43-2	Benzene	7	U
78-87-5	1,2-Dichloropropane	7	U
75-15-0	Carbon Disulfide	13	U
79-01-6	Trichloroethene	7	U
75-27-4	Bromodichloromethane	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
108-10-1	4-Methyl-2-Pentanone	27	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	7	U
79-00-5	1,1,2-Trichloroethane	7	U
108-88-3	Toluene	7	U

dw 10/7/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-35-03

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82569 Mod. Ref. No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-014

Sample wt/vol 4.37 (g/mL) g Lab File ID: 10052121

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 14 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	7	U
124-48-1	Dibromochloromethane	7	U
75-25-2	Bromoform	7	U
127-18-4	Tetrachloroethene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
108-38-3	m,p-Xylenes	13	U
100-42-5	Styrene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U
95-47-6	o-Xylene	7	U
98-82-8	Isopropylbenzene	7	U
103-65-1	n-Propylbenzene	7	U
108-67-8	1,3,5-Trimethylbenzene	7	U
95-63-6	1,2,4-Trimethylbenzene	7	U
104-51-8	n-Butylbenzene	7	U
96-12-8	1,2-Dibromo-3-Chloropropane	53	U

lew 10/7/10

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1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

AOC-14-3-0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82572 Mod Ref No.: _____ SDG No: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-016

Sample wt/vol 5.66 (g/mL) g Lab File ID: 10052133

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec 21 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	6	U	
75-01-4	Vinyl Chloride	6	U	
74-83-9	Bromomethane	6	U	
75-00-3	Chloroethane	6	U	
67-64-1	Acetone	43		
75-35-4	1,1-Dichloroethene	6	U	
75-09-2	Methylene Chloride	6	U	
156-60-5	trans-1,2-Dichloroethene	6	U	
1634-04-4	Methyl-t-butyl ether	6	U	
75-34-3	1,1-Dichloroethane	6	U	
78-93-3	2-Butanone	22	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	6	U	
67-66-3	Chloroform	6	U	
71-55-6	1,1,1-Trichloroethane	6	U	
107-06-2	1,2-Dichloroethane	6	U	
56-23-5	Carbon Tetrachloride	6	U	
71-43-2	Benzene	6	U	
78-87-5	1,2-Dichloropropane	6	U	
75-15-0	Carbon Disulfide	11	U	
79-01-6	Trichloroethene	6	U	
75-27-4	Bromodichloromethane	6	U	
10061-01-5	cis-1,3-Dichloropropene	6	U	
108-10-1	4-Methyl-2-Pentanone	22	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	6	U	
79-00-5	1,1,2-Trichloroethane	6	U	
108-88-3	Toluene	6	U	

KW 10/7/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-3-0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82572 Mod. Ref. No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-016

Sample wt/vol 5.66 (g/mL) g Lab File ID: 10052133

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec 21 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	11	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	45	U

kw 10/7/10

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-3-2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82572 Mod. Ref. No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-017

Sample wt/vol 6.49 (g/mL) g Lab File ID: 10052134

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 14 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	4	U	
75-01-4	Vinyl Chloride	4	U	
74-83-9	Bromomethane	4	U	
75-00-3	Chloroethane	4	U	
67-64-1	Acetone	19		
75-35-4	1,1-Dichloroethene	4	U	
75-09-2	Methylene Chloride	4	U	
156-60-5	trans-1,2-Dichloroethene	4	U	
1634-04-4	Methyl-t-butyl ether	4	U	
75-34-3	1,1-Dichloroethane	4	U	
78-93-3	2-Butanone	18	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	4	U	
67-66-3	Chloroform	4	U	
71-55-6	1,1,1-Trichloroethane	4	U	
107-06-2	1,2-Dichloroethane	4	U	
56-23-5	Carbon Tetrachloride	4	U	
71-43-2	Benzene	4	U	
78-87-5	1,2-Dichloropropane	4	U	
75-15-0	Carbon Disulfide	9	U	
79-01-6	Trichloroethene	4	U	
75-27-4	Bromodichloromethane	4	U	
10061-01-5	cis-1,3-Dichloropropene	4	U	
108-10-1	4-Methyl-2-Pentanone	18	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	4	U	
79-00-5	1,1,2-Trichloroethane	4	U	
108-88-3	Toluene	4	U	

kw 10/7/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-3-2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82572 Mod. Ref. No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-017

Sample wt/vol 6.49 (g/mL) g Lab File ID: 10052134

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 14 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	4	U
124-48-1	Dibromochloromethane	4	U
75-25-2	Bromoform	4	U
127-18-4	Tetrachloroethene	4	U
108-90-7	Chlorobenzene	4	U
100-41-4	Ethylbenzene	4	U
108-38-3	m,p-Xylenes	9	U
100-42-5	Styrene	4	U
79-34-5	1,1,2,2-Tetrachloroethane	4	U
95-47-6	o-Xylene	4	U
98-82-8	Isopropylbenzene	4	U
103-65-1	n-Propylbenzene	4	U
108-67-8	1,3,5-Trimethylbenzene	4	U
95-63-6	1,2,4-Trimethylbenzene	4	U
104-51-8	n-Butylbenzene	4	U
96-12-8	1,2-Dibromo-3-Chloropropane	36	U

MW 10/7/10

17

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-4-2-4 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82569 Mod. Ref. No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-019

Sample wt/vol 6.54 (g/mL) g Lab File ID: 10052122

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec 17 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl Chloride	5	U	
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	5	U	
67-64-1	Acetone	58		L
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene Chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl-t-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
78-93-3	2-Butanone	18	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
107-06-2	1,2-Dichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
71-43-2	Benzene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-15-0	Carbon Disulfide	9	U	
79-01-6	Trichloroethene	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-Pentanone	18	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
108-88-3	Toluene	5	U	

MW 10/7/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO
AOC-14-4-2-4 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82569 Mod. Ref. No : _____ SDG No. : 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-019

Sample wt/vol 6.54 (g/mL) g Lab File ID: 10052122

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 17 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	9	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	37	U

MW 10/7/10

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-5-0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82572 Mod. Ref. No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-020

Sample wt/vol 4.71 (g/mL) g Lab File ID: 10052135

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 22 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	7	U	
75-01-4	Vinyl Chloride	7	U	
74-83-9	Bromomethane	7	U	
75-00-3	Chloroethane	7	U	
67-64-1	Acetone	43		
75-35-4	1,1-Dichloroethene	7	U	
75-09-2	Methylene Chloride	7	U	
156-60-5	trans-1,2-Dichloroethene	7	U	
1634-04-4	Methyl-t-butyl ether	7	U	
75-34-3	1,1-Dichloroethane	7	U	
78-93-3	2-Butanone	27	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	7	U	
67-66-3	Chloroform	7	U	
71-55-6	1,1,1-Trichloroethane	7	U	
107-06-2	1,2-Dichloroethane	7	U	
56-23-5	Carbon Tetrachloride	7	U	
71-43-2	Benzene	7	U	
78-87-5	1,2-Dichloropropane	7	U	
75-15-0	Carbon Disulfide	14	U	
79-01-6	Trichloroethene	7	U	
75-27-4	Bromodichloromethane	7	U	
10061-01-5	cis-1,3-Dichloropropene	7	U	
108-10-1	4-Methyl-2-Pentanone	27	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	7	U	
79-00-5	1,1,2-Trichloroethane	7	U	
108-88-3	Toluene	7	U	

RW 10/7/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-5-0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82572 Mod. Ref No.: _____ SDG No: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-020

Sample wt/vol 4.71 (g/mL) g Lab File ID: 10052135

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 22 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	7	U
124-48-1	Dibromochloromethane	7	U
75-25-2	Bromoform	7	U
127-18-4	Tetrachloroethene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
108-38-3	m,p-Xylenes	14	U
100-42-5	Styrene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U
95-47-6	o-Xylene	7	U
98-82-8	Isopropylbenzene	7	U
103-65-1	n-Propylbenzene	7	U
108-67-8	1,3,5-Trimethylbenzene	7	U
95-63-6	1,2,4-Trimethylbenzene	7	U
104-51-8	n-Butylbenzene	7	U
96-12-8	1,2-Dibromo-3-Chloropropane	54	U

Clw 10/7/10

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-5-2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82572 Mod. Ref. No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-021

Sample wt/vol 6.09 (g/mL) g Lab File ID: 10052136

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 13 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl Chloride	5	U	
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	5	U	
67-64-1	Acetone	18	J	
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene Chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl-t-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
78-93-3	2-Butanone	19	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
107-06-2	1,2-Dichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
71-43-2	Benzene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-15-0	Carbon Disulfide	9	U	
79-01-6	Trichloroethene	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-Pentanone	19	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
108-88-3	Toluene	5	U	

KW 10/7/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-5-2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82572 Mod. Ref. No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-021

Sample wt/vol 6.09 (g/mL) g Lab File ID: 10052136

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 13 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	9	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	38	U

MW 10/7/10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-14-01

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82572 Mod. Ref. No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-022

Sample wt/vol 4.94 (g/mL) g Lab File ID: 10052137

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 15 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	6	U	
75-01-4	Vinyl Chloride	6	U	
74-83-9	Bromomethane	6	U	
75-00-3	Chloroethane	6	U	
67-64-1	Acetone	55		
75-35-4	1,1-Dichloroethene	6	U	
75-09-2	Methylene Chloride	6	U	
156-60-5	trans-1,2-Dichloroethene	6	U	
1634-04-4	Methyl-t-butyl ether	6	U	
75-34-3	1,1-Dichloroethane	6	U	
78-93-3	2-Butanone	24	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	6	U	
67-66-3	Chloroform	6	U	
71-55-6	1,1,1-Trichloroethane	6	U	
107-06-2	1,2-Dichloroethane	6	U	
56-23-5	Carbon Tetrachloride	6	U	
71-43-2	Benzene	6	U	
78-87-5	1,2-Dichloropropane	6	U	
75-15-0	Carbon Disulfide	12	U	
79-01-6	Trichloroethene	6	U	
75-27-4	Bromodichloromethane	6	U	
10061-01-5	cis-1,3-Dichloropropene	6	U	
108-10-1	4-Methyl-2-Pentanone	24	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	6	U	
79-00-5	1,1,2-Trichloroethane	6	U	
108-88-3	Toluene	6	U	

NW 10/7/10

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-14-01

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82572 Mod. Ref. No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-022

Sample wt/vol 4.94 (g/mL) g Lab File ID: 10052137

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 15 Date Analyzed: 05/22/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	12	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	48	U

MW 10/7/10

ENVIRONMENTAL
Data Services, Inc.

SEMIVOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051907

Client: ARGO Systems, Glen Burnie, MD Date: October 7, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-35-29	10051907-001	Soil
2	AOC-35-38	10051907-002	Soil
3	AOC-35-30	10051907-003	Soil
4	AOC-35-34	10051907-004	Soil
5	AOC-35-35	10051907-005	Soil
6	AOC-35-33	10051907-006	Soil
7	AOC-35-32	10051907-007	Soil
8	AOC-35-31	10051907-009	Soil
9	DUP-AOC-35-03	10051907-014	Soil
10	AOC-14-3-0-2	10051907-016	Soil
11	AOC-14-3-2-4	10051907-017	Soil
12	AOC-14-4-0-2	10051907-018	Soil
13	AOC-14-4-2-4	10051907-019	Soil
13MS	AOC-14-4-2-4MS	10051907-019MS	Soil
13MSD	AOC-14-4-2-4MSD	10051907-019MSD	Soil
14	AOC-14-5-0-2	10051907-020	Soil
15	AOC-14-5-2-4	10051907-021	Soil
16	DUP-AOC-14-02	10051907-023	Soil
17	DUP-AOC-2A-04/2-4	10051907-033	Soil
18	DUP-AOC-2A-05/2-4	10051907-034	Soil
19	DUP-AOC-2A-06/0-1	10051907-035	Soil
20	DUP-AOC-3-06/2-4	10051907-036	Soil
21	DUP-AOC-3-07/2-4	10051907-037	Soil
22	DUP-AOC-3-08/8-10	10051907-038	Soil
23	DUP-AOC-3-09/2-4	10051907-039	Soil
24	AOC-3-34/2-4	10051907-041	Soil
24MS	AOC-3-34/2-4MS	10051907-041MS	Soil
24MSD	AOC-3-34/2-4MSD	10051907-041MSD	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples, and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
05/24/10	Bis(2-chloroethyl)ether	26.6%	None	All associated samples ND
	n-Nitrosodi-n-propylamine	28.3%	None	
	4-Nitrophenol	34.5%	None	

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD samples exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS sample exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria except the following.

Sample ID	Internal Standard	Area Count	Qualifier
2	IS6=Perylene-d12	Low	J/UJ- Associated compounds
6	IS6=Perylene-d12	Low	
7	IS6=Perylene-d12	Low	

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-35-30 ug/kg	DUP-AOC-35-03 ug/kg	RPD	Qualifier
Benzo(a)pyrene	28 U	82	NC	None
Chrysene	200 U	96	NC	None

Compound	AOC-35-30 ug/kg	DUP-AOC-35-03 ug/kg	RPD	Qualifier
Fluoranthene	200 U	150	NC	None
Pyrene	200 U	150	NC	None

Compound	AOC-14-3-2-4 ug/kg	DUP-AOC-14-02 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-2A-8/2-4 ug/kg	DUP-AOC-2A-04/2-4 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-2A-19/2-4 ug/kg	DUP-AOC-2A-05/2-4 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-2A-12/0-1 ug/kg	DUP-AOC-2A-06/0-1 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-3-16/2-4 ug/kg	DUP-AOC-3-06/2-4 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-3-21/2-4 ug/kg	DUP-AOC-3-07/2-4 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-3(GP07)-1/8-10 ug/kg	DUP-AOC-3-08/8-10 ug/kg	RPD	Qualifier
Dibenz(a,h)anthracene	51	ND	NC	None

Compound	AOC-3-28/2-4 ug/kg	DUP-AOC-3-09/2-4 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Tentatively Identified Compounds (TICs) - TICs were not reported.

Compound Quantitation - No discrepancies were identified.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-29

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82614 Mod Ref No.: _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-001

Sample wt/vol: 30.12 (g/mL):g Lab File ID: 10052420.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	380	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	380	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-29

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82614 Mod. Ref No : _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-001

Sample wt/vol: 30.12 (g/mL):g Lab File ID: 10052420.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	75	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

kw 10/7/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-28

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82614 Mod. Ref No.: _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-002

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10052429.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/24/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	220	U	
208-96-8	Acenaphthylene	220	U	
120-12-7	Anthracene	220	U	
56-55-3	Benzo(a)anthracene	220	U	
50-32-8	Benzo(a)pyrene	31	~~U~~	UJ
205-99-2	Benzo(b)fluoranthene	220	~~U~~	UJ
191-24-2	Benzo(g,h,i)perylene	220	~~U~~	UJ
207-08-9	Benzo(k)fluoranthene	220	~~U~~	UJ
111-44-4	bis(2-chloroethyl) ether	220	U	
108-60-1	bis(2-chloroisopropyl) ether	220	U	
117-81-7	bis(2-ethylhexyl) phthalate	220	U	
84-74-2	Di-n-butyl phthalate	440	U	
86-74-8	Carbazole	220	U	
106-47-8	4-Chloroaniline	440	U	
91-58-7	2-Chloronaphthalene	220	U	
95-57-8	2-Chlorophenol	220	U	
218-01-9	Chrysene	220	U	
53-70-3	Dibenz(a,h)Anthracene	31	~~U~~	UJ
132-64-9	Dibenzofuran	220	U	
95-50-1	1,2-Dichlorobenzene	220	U	
541-73-1	1,3-Dichlorobenzene	220	U	
106-46-7	1,4-Dichlorobenzene	220	U	
91-94-1	3,3-Dichlorobenzidine	220	U	
120-83-2	2,4-Dichlorophenol	220	U	
84-66-2	Diethyl phthalate	220	U	
105-67-9	2,4-Dimethylphenol	220	U	
51-28-5	2,4-Dinitrophenol	440	U	
121-14-2	2,4-Dinitrotoluene	220	U	
606-20-2	2,6-Dinitrotoluene	220	U	
206-44-0	Fluoranthene	220	U	
86-73-7	Fluorene	220	U	
118-74-1	Hexachlorobenzene	220	U	
87-68-3	Hexachlorobutadiene	220	U	
77-47-4	Hexachlorocyclopentadiene	220	U	

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MW 10/7/10

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1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO

AOC-35-28

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82614 Mod Ref No.: _____ SDG No : 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-002

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10052429.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	220	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	220	~~U~~ UJ
78-59-1	Isophorone	220	U
91-57-6	2-Methylnaphthalene	220	U
95-48-7	2-Methyl phenol	220	U
	3&4-Methylphenol	220	U
91-20-3	Naphthalene	220	U
98-95-3	Nitrobenzene	220	U
621-64-7	N-Nitrosodi-n-propyl amine	87	U
86-30-6	N-Nitrosodiphenylamine (1)	220	U
87-86-5	Pentachlorophenol	440	U
85-01-8	Phenanthrene	220	U
108-95-2	Phenol	220	U
129-00-0	Pyrene	220	U
103-23-1	Bis(2-ethylhexyl)adipate	220	U
120-82-1	1,2,4-Trichlorobenzene	220	U
88-06-2	2,4,6-Trichlorophenol	220	U
95-95-4	2,4,5-Trichlorophenol	220	U

(1) Cannot be separated from Diphenylamine

hw 10/7/10

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-30

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82614 Mod. Ref No : _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-003

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10052424.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	400	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	400	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	400	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

SW8270C

RW 10/7/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-30

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82614 Mod Ref No.: _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-003

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10052424.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/24/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	79	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

NW 10/7/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-34

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82614 Mod. Ref No : _____ SDG No : 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-004

Sample wt/vol: 30.17 (g/mL): g Lab File ID: 10052425.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/24/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	400	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	400	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	400	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

NW 10/7/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-34

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82614 Mod Ref No : _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-004

Sample wt/vol: 30.17 (g/mL): g Lab File ID: 10052425.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/24/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	80	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

kw 10/7/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-35

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82614 Mod. Ref No : _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-005

Sample wt/vol: 30.18 (g/mL):g Lab File ID: 10052422.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	380	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	380	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

NW 10/7/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-35

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82614 Mod Ref No.: _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-005

Sample wt/vol: 30.18 (g/mL): g Lab File ID: 10052422.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	75	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

NEW 10/7/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-33

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82614 Mod. Ref No.: _____ SDG No : 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-006

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10052430.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/24/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	~~U~~ UJ
205-99-2	Benzo(b)fluoranthene	190	~~U~~
191-24-2	Benzo(g,h,i)perylene	190	~~U~~
207-08-9	Benzo(k)fluoranthene	190	~~U~~
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	380	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	380	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	~~U~~ UJ
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

NW 10/7/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-33

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82614 Mod Ref No : _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-006

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10052430.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/24/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	~~U~~ UJ
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	76	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

MW 10/7/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-32

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82614 Mod Ref No.: _____ SDG No : 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-007

Sample wt/vol: 30.04 (g/mL):g Lab File ID: 10052428.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	27	~~U~~ UJ
205-99-2	Benzo(b)fluoranthene	200	~~U~~
191-24-2	Benzo(g,h,i)perylene	200	~~U~~
207-08-9	Benzo(k)fluoranthene	200	~~U~~
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	390	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	390	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	27	~~U~~ UJ
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	390	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

hwj 10/7/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-32

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82614 Mod Ref No.: _____ SDG No : 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-007

Sample wt/vol: 30.04 (g/mL): g Lab File ID: 10052428.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	~~U~~ UJ
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	78	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

hw 10/7/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-31

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82614 Mod. Ref No.: _____ SDG No : 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-009

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10052427.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	220	U
208-96-8	Acenaphthylene	220	U
120-12-7	Anthracene	220	U
56-55-3	Benzo(a)anthracene	220	U
50-32-8	Benzo(a)pyrene	31	U
205-99-2	Benzo(b)fluoranthene	220	U
191-24-2	Benzo(g,h,i)perylene	220	U
207-08-9	Benzo(k)fluoranthene	220	U
111-44-4	bis(2-chloroethyl) ether	220	U
108-60-1	bis(2-chloroisopropyl) ether	220	U
117-81-7	bis(2-ethylhexyl) phthalate	220	U
84-74-2	Di-n-butyl phthalate	440	U
86-74-8	Carbazole	220	U
106-47-8	4-Chloroaniline	440	U
91-58-7	2-Chloronaphthalene	220	U
95-57-8	2-Chlorophenol	220	U
218-01-9	Chrysene	220	U
53-70-3	Dibenz(a,h)Anthracene	31	U
132-64-9	Dibenzofuran	220	U
95-50-1	1,2-Dichlorobenzene	220	U
541-73-1	1,3-Dichlorobenzene	220	U
106-46-7	1,4-Dichlorobenzene	220	U
91-94-1	3,3-Dichlorobenzidine	220	U
120-83-2	2,4-Dichlorophenol	220	U
84-66-2	Diethyl phthalate	220	U
105-67-9	2,4-Dimethylphenol	220	U
51-28-5	2,4-Dinitrophenol	440	U
121-14-2	2,4-Dinitrotoluene	220	U
606-20-2	2,6-Dinitrotoluene	220	U
206-44-0	Fluoranthene	220	U
86-73-7	Fluorene	220	U
118-74-1	Hexachlorobenzene	220	U
87-68-3	Hexachlorobutadiene	220	U
77-47-4	Hexachlorocyclopentadiene	220	U

NW 10/7/10

SW8270C

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1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-35-31

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82614 Mod Ref No.: _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-009

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10052427.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	220	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	220	U
78-59-1	Isophorone	220	U
91-57-6	2-Methylnaphthalene	220	U
95-48-7	2-Methyl phenol	220	U
	3&4-Methylphenol	220	U
91-20-3	Naphthalene	220	U
98-95-3	Nitrobenzene	220	U
621-64-7	N-Nitrosodi-n-propyl amine	89	U
86-30-6	N-Nitrosodiphenylamine (1)	220	U
87-86-5	Pentachlorophenol	440	U
85-01-8	Phenanthrene	220	U
108-95-2	Phenol	220	U
129-00-0	Pyrene	220	U
103-23-1	Bis(2-ethylhexyl)adipate	220	U
120-82-1	1,2,4-Trichlorobenzene	220	U
88-06-2	2,4,6-Trichlorophenol	220	U
95-95-4	2,4,5-Trichlorophenol	220	U

(1) Cannot be separated from Diphenylamine

KW 10/7/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-AOC-35-03

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82614 Mod. Ref No : _____ SDG No : 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-014

Sample wt/vol: 30.2 (g/mL): g Lab File ID: 10052426.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	82	
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	390	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	390	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	96	J
53-70-3	Dibenz(a,h)Anthracene	27	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	390	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	150	J
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

LW 10/7/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-AOC-35-03

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82614 Mod Ref No.: _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-014

Sample wt/vol: 30.2 (g/mL): g Lab File ID: 10052426.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	77	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	150	J
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

MW 10/7/10

SW8270C

10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-14-3-0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82614 Mod Ref No.: _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-016

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10052416.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
111-44-4	bis(2-chloroethyl) ether	210	U
108-60-1	bis(2-chloroisopropyl) ether	210	U
117-81-7	bis(2-ethylhexyl) phthalate	210	U
84-74-2	Di-n-butyl phthalate	420	U
86-74-8	Carbazole	210	U
106-47-8	4-Chloroaniline	420	U
91-58-7	2-Chloronaphthalene	210	U
95-57-8	2-Chlorophenol	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
132-64-9	Dibenzofuran	210	U
95-50-1	1,2-Dichlorobenzene	210	U
541-73-1	1,3-Dichlorobenzene	210	U
106-46-7	1,4-Dichlorobenzene	210	U
91-94-1	3,3-Dichlorobenzidine	210	U
120-83-2	2,4-Dichlorophenol	210	U
84-66-2	Diethyl phthalate	210	U
105-67-9	2,4-Dimethylphenol	210	U
51-28-5	2,4-Dinitrophenol	420	U
121-14-2	2,4-Dinitrotoluene	210	U
606-20-2	2,6-Dinitrotoluene	210	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
118-74-1	Hexachlorobenzene	210	U
87-68-3	Hexachlorobutadiene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U

MW 10/7/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-14-3-0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82614 Mod Ref No : _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-016

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10052416.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/24/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
78-59-1	Isophorone	210	U
91-57-6	2-Methylnaphthalene	210	U
95-48-7	2-Methyl phenol	210	U
	3&4-Methylphenol	210	U
91-20-3	Naphthalene	210	U
98-95-3	Nitrobenzene	210	U
621-64-7	N-Nitrosodi-n-propyl amine	84	U
86-30-6	N-Nitrosodiphenylamine (1)	210	U
87-86-5	Pentachlorophenol	420	U
85-01-8	Phenanthrene	210	U
108-95-2	Phenol	210	U
129-00-0	Pyrene	210	U
103-23-1	Bis(2-ethylhexyl)adipate	210	U
120-82-1	1,2,4-Trichlorobenzene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U

(1) Cannot be separated from Diphenylamine

MW 10/7/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-14-3-2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82614 Mod. Ref No : _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-017

Sample wt/vol: 30.04 (g/mL): g Lab File ID: 10052412.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/24/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	390	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	390	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	390	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

MW 10/7/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-14-3-2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82614 Mod. Ref No.: _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-017

Sample wt/vol: 30.04 (g/mL): g Lab File ID: 10052412.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	77	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

kw 10/7/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-14-4-0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82614 Mod Ref No : _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-018

Sample wt/vol: 30.06 (g/mL):g Lab File ID: 10052421.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/24/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	400	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	400	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	400	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

LW 10/7/10

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1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-14-4-0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82614 Mod Ref No : _____ SDG No : 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-018

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10052421.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	80	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

MW 10/7/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-14-4-2-4 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82613 Mod Ref No.: _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-019

Sample wt/vol: 30.04 (g/mL): g Lab File ID: 10052408.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	400	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	400	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	400	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

SW8270C

LW 10/7/10

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1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-14-4-2-4 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82613 Mod. Ref No : _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-019

Sample wt/vol: 30.04 (g/mL): g Lab File ID: 10052408.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	80	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

MW 10/7/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-14-5-0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82614 Mod Ref No.: _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-020

Sample wt/vol: 30.21 (g/mL): g Lab File ID: 10052414.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/24/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	30	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
111-44-4	bis(2-chloroethyl) ether	210	U
108-60-1	bis(2-chloroisopropyl) ether	210	U
117-81-7	bis(2-ethylhexyl) phthalate	210	U
84-74-2	Di-n-butyl phthalate	420	U
86-74-8	Carbazole	210	U
106-47-8	4-Chloroaniline	420	U
91-58-7	2-Chloronaphthalene	210	U
95-57-8	2-Chlorophenol	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	30	U
132-64-9	Dibenzofuran	210	U
95-50-1	1,2-Dichlorobenzene	210	U
541-73-1	1,3-Dichlorobenzene	210	U
106-46-7	1,4-Dichlorobenzene	210	U
91-94-1	3,3-Dichlorobenzidine	210	U
120-83-2	2,4-Dichlorophenol	210	U
84-66-2	Diethyl phthalate	210	U
105-67-9	2,4-Dimethylphenol	210	U
51-28-5	2,4-Dinitrophenol	420	U
121-14-2	2,4-Dinitrotoluene	210	U
606-20-2	2,6-Dinitrotoluene	210	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
118-74-1	Hexachlorobenzene	210	U
87-68-3	Hexachlorobutadiene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U

lew 10/7/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-14-5-0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82614 Mod Ref No.: _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-020

Sample wt/vol: 30.21 (g/mL): g Lab File ID: 10052414.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
78-59-1	Isophorone	210	U
91-57-6	2-Methylnaphthalene	210	U
95-48-7	2-Methyl phenol	210	U
	3&4-Methylphenol	210	U
91-20-3	Naphthalene	210	U
98-95-3	Nitrobenzene	210	U
621-64-7	N-Nitrosodi-n-propyl amine	85	U
86-30-6	N-Nitrosodiphenylamine (1)	210	U
87-86-5	Pentachlorophenol	420	U
85-01-8	Phenanthrene	210	U
108-95-2	Phenol	210	U
129-00-0	Pyrene	210	U
103-23-1	Bis(2-ethylhexyl)adipate	210	U
120-82-1	1,2,4-Trichlorobenzene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U

(1) Cannot be separated from Diphenylamine

KW 10/7/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-14-5-2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82614 Mod Ref No.: _____ SDG No : 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-021

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10052413.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	380	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	380	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

kw 10/7/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-14-5-2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82614 Mod. Ref No.: _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-021

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10052413.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	76	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

NW 10/7/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-AOC-14-02

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82614 Mod. Ref No : _____ SDG No : 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-023

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10052423.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/24/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	410	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	410	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	410	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

RW 10/7/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-AOC-14-02

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82614 Mod Ref No : _____ SDG No : 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-023

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10052423.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	81	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

KW 10/7/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-AOC-2A-04/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82614 Mod. Ref No : _____ SDG No : 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-033

Sample wt/vol: 30.01 (g/mL): g Lab File ID: 10052415.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

MW 10/7/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
DUP-AOC-2A-05/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82614 Mod. Ref No : _____ SDG No : 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-034

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10052411.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	25	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	25	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	180	U
129-00-0	Pyrene	180	U

(1) Cannot be separated from Diphenylamine RW 10/7/10 SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-AOC-2A-06/0-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82614 Mod. Ref No.: _____ SDG No : 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-035

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10052417.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

WW 10/7/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-AOC-3-06/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82642 Mod. Ref No : _____ SDG No : 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-036

Sample wt/vol: 30.06 (g/mL):g Lab File ID: 10052521.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	380	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	380	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

(1) Cannot be separated from Diphenylamine NW 10/7/10 SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
DUP-AOC-3-06/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82642 Mod. Ref No : _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-036

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10052521.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	76	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

NW 10/7/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-AOC-3-07/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82642 Mod Ref No.: _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-037

Sample wt/vol: 30.03 (g/mL): g Lab File ID: 10052522.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	380	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	380	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

(1) Cannot be separated from Diphenylamine

NW 10/7/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
DUP-AOC-3-07/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82642 Mod. Ref No : _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-037

Sample wt/vol: 30.03 (g/mL): g Lab File ID: 10052522.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	77	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

Nu 10/7/10

IE - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
DUP-AOC-3-08/8-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82642 Mod. Ref No.: _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-038

Sample wt/vol: 30.12 (g/mL): g Lab File ID: 10052523.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 28 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	230	U
208-96-8	Acenaphthylene	230	U
120-12-7	Anthracene	230	U
56-55-3	Benzo(a)anthracene	230	U
50-32-8	Benzo(a)pyrene	32	U
205-99-2	Benzo(b)fluoranthene	230	U
191-24-2	Benzo(g,h,i)perylene	230	U
207-08-9	Benzo(k)fluoranthene	230	U
111-44-4	bis(2-chloroethyl) ether	230	U
108-60-1	bis(2-chloroisopropyl) ether	230	U
117-81-7	bis(2-ethylhexyl) phthalate	230	U
84-74-2	Di-n-butyl phthalate	460	U
86-74-8	Carbazole	230	U
106-47-8	4-Chloroaniline	460	U
91-58-7	2-Chloronaphthalene	230	U
95-57-8	2-Chlorophenol	230	U
218-01-9	Chrysene	230	U
53-70-3	Dibenz(a,h)Anthracene	32	U
132-64-9	Dibenzofuran	230	U
95-50-1	1,2-Dichlorobenzene	230	U
541-73-1	1,3-Dichlorobenzene	230	U
106-46-7	1,4-Dichlorobenzene	230	U
91-94-1	3,3-Dichlorobenzidine	230	U
120-83-2	2,4-Dichlorophenol	230	U
84-66-2	Diethyl phthalate	230	U
105-67-9	2,4-Dimethylphenol	230	U
51-28-5	2,4-Dinitrophenol	460	U
121-14-2	2,4-Dinitrotoluene	230	U
606-20-2	2,6-Dinitrotoluene	230	U
206-44-0	Fluoranthene	230	U
86-73-7	Fluorene	230	U
118-74-1	Hexachlorobenzene	230	U
87-68-3	Hexachlorobutadiene	230	U
77-47-4	Hexachlorocyclopentadiene	230	U

(1) Cannot be separated from Diphenylamine LW 10/7/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-AOC-3-08/8-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82642 Mod Ref No.: _____ SDG No : 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-038

Sample wt/vol: 30.12 (g/mL): g Lab File ID: 10052523.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 28 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	230	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	230	U
78-59-1	Isophorone	230	U
91-57-6	2-Methylnaphthalene	230	U
95-48-7	2-Methyl phenol	230	U
	3&4-Methylphenol	230	U
91-20-3	Naphthalene	230	U
98-95-3	Nitrobenzene	230	U
621-64-7	N-Nitrosodi-n-propyl amine	92	U
86-30-6	N-Nitrosodiphenylamine (1)	230	U
87-86-5	Pentachlorophenol	460	U
85-01-8	Phenanthrene	230	U
108-95-2	Phenol	230	U
129-00-0	Pyrene	230	U
103-23-1	Bis(2-ethylhexyl)adipate	230	U
120-82-1	1,2,4-Trichlorobenzene	230	U
88-06-2	2,4,6-Trichlorophenol	230	U
95-95-4	2,4,5-Trichlorophenol	230	U

kw 10/7/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-AOC-3-09/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82642 Mod Ref No : _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-039

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10052524.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/25/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	390	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	390	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	27	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	390	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

(1) Cannot be separated from Diphenylamine VLW 10/7/10 SW8270C

ID - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
DUP-AOC-3-09/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82642 Mod. Ref No.: _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-039

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10052524.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/25/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	78	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

tw 10/7/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-34/2-4 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82642 Mod. Ref No : _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-041

Sample wt/vol: 30.14 (g/mL): g Lab File ID: 10052525.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/25/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	390	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	390	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	390	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

(1) Cannot be separated from Diphenylamine

KW 10/7/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-34/2-4 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82642 Mod Ref No.: _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-041

Sample wt/vol: 30.14 (g/mL): g Lab File ID: 10052525.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/25/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	77	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

Qw 10/7/10

ENVIRONMENTAL
Data Services, Inc.

PESTICIDES

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051907

Client: ARGO Systems, Glen Burnie, MD Date: October 7, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	IA(689)-1	10051907-008	Soil
2	AOC-45A-28	10051907-010	Soil
3	AOC-45A-54	10051907-011	Soil
4	AOC-45A-69	10051907-012	Soil
5	AOC-45A-76	10051907-013	Soil
6	DUP-AOC-45A-02	10051907-015	Soil
7	AOC-21-33/2-4	10051907-040	Soil
7MS	AOC-21-33/2-4MS	10051907-040MS	Soil
7MSD	AOC-21-33/2-4MSD	10051907-040MSD	Soil
8	AOC-3-34/2-4	10051907-041	Soil
8MS	AOC-3-34/2-4MS	10051907-041MS	Soil
8MSD	AOC-3-34/2-4MSD	10051907-041MSD	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days.

Instrument performance - All 4,4'-DDT/endrin % breakdown, resolution check mixture and PEMs were within criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD values.

Calibration Verification - The continuing calibrations exhibited acceptable %D values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD samples exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier
7	4,4-DDT	59%/71%/OK	L/UL
8	4,4-DDE	77%/OK/OK	L/UL
	4,4-DDT	76%/OK/OK	
	Endrin	81%/OK/OK	

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-45A-76 ug/kg	DUP-AOC-45A-02 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound Identification - Retention times were acceptable and no further action was taken.

Compound Quantitation - No discrepancies were identified.

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
1A(689)-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod Ref No _____ SDG No : 10051907

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051907-008

Sample wt/vol: 10.21 (g/mL): g Lab File ID: 10052543.D

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/19/2010

Extraction : (Type) SONC Date Extracted: 05/22/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82633

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

RW 10/7/10

SW8081B

2

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45a-28

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051907

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051907-010

Sample wt/vol: 10.26 (g/mL): g Lab File ID: 10052425.D

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/19/2010

Extraction: (Type) SONC Date Extracted: 05/22/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 05/24/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82632

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	23	U
50-29-3	4,4-DDT	23	U
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U

MW
10/7/10

SW8081B

3

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45a-54

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10051907

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051907-011

Sample wt/vol: 10.29 (g/mL): g Lab File ID: 10052545.D

% Moisture: 23 Decanted: (Y/N) N Date Received: 05/19/2010

Extraction : (Type) SONC Date Extracted: 05/22/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82633

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	25	U
72-55-9	4,4-DDE	25	U
50-29-3	4,4-DDT	25	U
309-00-2	Aldrin	25	U
319-84-6	alpha-BHC	25	U
5103-71-9	alpha-Chlordane	25	U
319-85-7	beta-BHC	25	U
319-86-8	delta-BHC	25	U
60-57-1	Dieldrin	25	U
959-98-8	Endosulfan I	25	U
33213-65-9	Endosulfan II	25	U
1031-07-8	Endosulfan sulfate	25	U
72-20-8	Endrin	25	U
7421-93-4	Endrin aldehyde	25	U
53494-70-5	Endrin ketone	25	U
58-89-9	gamma-BHC (Lindane)	25	U
5103-74-2	gamma-Chlordane	25	U
76-44-8	Heptachlor	25	U
1024-57-3	Heptachlor epoxide	25	U
72-43-5	Methoxychlor	25	U
8001-35-2	Toxaphene	250	U

NW
10/7/10

SW8081B

4

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45a-69

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No : 10051907

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051907-012

Sample wt/vol: 10.21 (g/mL): g Lab File ID: 10052427.D

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/19/2010

Extraction : (Type) SONC Date Extracted: 05/22/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82632

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

NW
10/7/10

SW8081B

5

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45a-76

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No : 10051907

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051907-013

Sample wt/vol: 10.34 (g/mL): g Lab File ID: 10052547.D

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/19/2010

Extraction : (Type) SONC Date Extracted: 05/22/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82633

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	23	U
50-29-3	4,4-DDI	23	U
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U

MW
10/7/10

SW8081B

6

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-45a-02

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No : 10051907

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051907-015

Sample wt/vol: 10.41 (g/mL): g Lab File ID: 10052549.D

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/19/2010

Extraction : (Type) SONC Date Extracted: 05/22/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/25/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82633

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	23	U
50-29-3	4,4-DDT	23	U
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U

KW
10/7/10

SW8081B

7

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2a-33/2-4 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No : 10051907

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051907-040

Sample wt/vol: 10.19 (g/mL): g Lab File ID: 10052429.D

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/19/2010

Extraction : (Type) SONC Date Extracted: 05/22/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82632

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	~~U~~ UL
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

HW
10/7/10

SW8081B

8

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-34/2-4 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No.: 10051907

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051907-041

Sample wt/vol: 10.34 (g/mL): g Lab File ID: 10052431.D

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/19/2010

Extraction : (Type) SONC Date Extracted: 05/22/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82632

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
72-54-8	4,4-DDD	22	U	
72-55-9	4,4-DDE	22	~~U~~	UL
50-29-3	4,4-DDT	22	~~U~~	UL
309-00-2	Aldrin	22	U	
319-84-6	alpha-BHC	22	U	
5103-71-9	alpha-Chlordane	22	U	
319-85-7	beta-BHC	22	U	
319-86-8	delta-BHC	22	U	
60-57-1	Dieldrin	22	U	
959-98-8	Endosulfan I	22	U	
33213-65-9	Endosulfan II	22	U	
1031-07-8	Endosulfan sulfate	22	U	
72-20-8	Endrin	22	~~U~~	UL
7421-93-4	Endrin aldehyde	22	U	
53494-70-5	Endrin ketone	22	U	
58-89-9	gamma-BHC (Lindane)	22	U	
5103-74-2	gamma-Chlordane	22	U	
76-44-8	Heptachlor	22	U	
1024-57-3	Heptachlor epoxide	22	U	
72-43-5	Methoxychlor	22	U	
8001-35-2	Toxaphene	220	U	

NW
10/7/10

SW8081B

ENVIRONMENTAL
Data Services, Inc.

PCBs
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051907

Client: ARGO Systems, Glen Burnie, MD Date: October 7, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: [redacted] (b) (4)

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-28-27	10051907-024	Soil
1MS	AOC-28-27MS	10051907-024MS	Soil
1MSD	AOC-28-27MSD	10051907-024MSD	Soil
2	AOC-28-19	10051907-025	Soil
3	AOC-28-20	10051907-026	Soil
4	AOC-28-28	10051907-027	Soil
5	AOC-28-34	10051907-028	Soil
6	AOC-28-33	10051907-029	Soil
7	AOC-28-29	10051907-030	Soil
8	AOC-28-35	10051907-031	Soil
9	DUP-AOC-28-01	10051907-032	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days.

Initial Calibration - The initial calibrations exhibited acceptable %RSD values.

Calibration Verification - The continuing calibrations exhibited acceptable %D values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-28-05 mg/kg	DUP-AOC-28-01 mg/kg	RPD	Qualifier
None	ND	ND	-	-

Compound Identification - Retention times were acceptable and no further action was taken.

Compound Quantitation - No discrepancies were identified.

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-27 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051907

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051907-024

Sample wt/vol: 10.22 (g/mL): g Lab File ID: 10052413.D

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/19/2010

Extraction: (Type) SONC Date Extracted: 05/22/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82620

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

MW
10/7/10

SW8082

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1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-19

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051907

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051907-025

Sample wt/vol: 10.34 (g/mL): g Lab File ID: 10052415.D

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/19/2010

Extraction : (Type) SONC Date Extracted: 05/22/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82620

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

NW
10/7/10

SW8082

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1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-20

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No _____ SDG No : 10051907

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051907-026

Sample wt/vol: 10.28 (g/mL): g Lab File ID: 10052417.D

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/19/2010

Extraction : (Type) SONC Date Extracted: 05/22/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82620

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

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SW8082

4

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-28

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No. _____ SDG No.: 10051907

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051907-027

Sample wt/vol: 10.41 (g/mL): g Lab File ID: 10052419.D

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/19/2010

Extraction : (Type) SONC Date Extracted: 05/22/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82620

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

NW
10/7/10

SW8082

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1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-34

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod Ref No _____ SDG No : 10051907

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051907-028

Sample wt/vol: 10.27 (g/mL): g Lab File ID: 10052421.D

% Moisture: 26 Decanted: (Y/N) N Date Received: 05/19/2010

Extraction : (Type) SONC Date Extracted: 05/22/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82620

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

RW
10/7/10

SW8082

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-33

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051907

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051907-029

Sample wt/vol: 10.36 (g/mL): g Lab File ID: 10052425.D

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/19/2010

Extraction : (Type) SONC Date Extracted: 05/22/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82620

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

NW
10/7/10

SW8082

7

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-~~28~~ 29

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No : 10051907

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051907-030

Sample wt/vol: 10.28 (g/mL): g Lab File ID: 10052427.D

% Moisture: 25 Decanted: (Y/N) N Date Received: 05/19/2010

Extraction : (Type) SONC Date Extracted: 05/22/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82620

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

NW
10/7/10

SW8082

8

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-35

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10051907

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051907-031

Sample wt/vol: 10.34 (g/mL): g Lab File ID: 10052429.D

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/19/2010

Extraction : (Type) SONC Date Extracted: 05/22/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82620

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

MW
6/7/10

SW8082

9

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-28-01

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No.: 10051907

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051907-032

Sample wt/vol: 10.42 (g/mL): g Lab File ID: 10052431.D

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/19/2010

Extraction : (Type) SONC Date Extracted: 05/22/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82620

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0 1	U
11096-82-5	PCB-1260	0.1	U

MW
(D)2/10

SW8082

ENVIRONMENTAL
Data Services, Inc.

METALS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051907

Client: ARGO Systems, Glen Burnie, MD Date: October 7, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-35-29	10051907-001	Soil
2	AOC-35-38	10051907-002	Soil
3	AOC-35-30	10051907-003	Soil
4	AOC-35-34	10051907-004	Soil
5	AOC-35-35	10051907-005	Soil
6	AOC-35-33	10051907-006	Soil
7	AOC-35-32	10051907-007	Soil
8	AOC-35-31	10051907-009	Soil
9	DUP-AOC-35-03	10051907-014	Soil
10	AOC-14-3-0-2	10051907-016	Soil
11	AOC-14-3-2-4	10051907-017	Soil
12	AOC-14-4-0-2	10051907-018	Soil
13	AOC-14-4-2-4	10051907-019	Soil
13MS	AOC-14-4-2-4MS	10051907-019MS	Soil
13MSD	AOC-14-4-2-4MSD	10051907-019MSD	Soil
14	AOC-14-5-0-2	10051907-020	Soil
15	AOC-14-5-2-4	10051907-021	Soil
16	DUP-AOC-14-02	10051907-023	Soil
17*	AOC-28-27	10051907-024	Soil
18*	AOC-28-19	10051907-025	Soil
19*	AOC-28-20	10051907-026	Soil
20*	AOC-28-28	10051907-027	Soil
21*	AOC-28-34	10051907-028	Soil
22*	AOC-28-33	10051907-029	Soil
23*	AOC-28-29	10051907-030	Soil
24*	AOC-28-35	10051907-031	Soil
25*	DUP-AOC-28-01	10051907-032	Soil

* - *Mercury only*

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable except the following.

CCV ID	Compound	%R	Qualifier	Affected Samples
Batch 82568	Mercury	88%	J/UJ	17-22

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier	Affected Samples
13	Antimony	60%/71%/OK	L/UL	1-16
	Chromium	130%/OK/OK	K	
	Copper	135%/OK/OK	K	
	Zinc	OK/139%/33	J	

LCS - The LCS samples exhibited acceptable %R values except the following.

LCS ID	Compound	%R	Qualifier	Affected Samples
Batch 82604	Beryllium	127%	K	1-3, 5, 6, 8, 9, 13

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-35-30 mg/kg	DUP-AOC-35-03 mg/kg	RPD	Qualifier
Arsenic	3.3	3.9	17%	None
Beryllium	2.5	1.6	44%	None
Chromium	33	33	0%	None
Copper	15	17	13%	None

Compound	AOC-35-30 mg/kg	DUP-AOC-35-03 mg/kg	RPD	Qualifier
Lead	7.6	15	65%	None
Nickel	15	15	0%	None
Thallium	0.5 U	0.35	NC	None
Zinc	45	50	11%	None

Compound	AOC-14-3-2-4 mg/kg	DUP-AOC-14-02 mg/kg	RPD	Qualifier
Arsenic	1.8	4.2	80%	None
Chromium	25	32	25%	None
Copper	24	40	50%	None
Lead	6.3	60	162%	J
Nickel	13	23	56%	None
Zinc	30	54	57%	None

Compound	AOC-28-05 mg/kg	DUP-AOC-28-01 mg/kg	RPD	Qualifier
Mercury	0.10	0.08	22%	None

Compound Quantitation - No discrepancies were identified.

1

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-29

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10051907

Matrix (soil/water): SOIL Lab Sample ID: 10051907-001

Level (low/med): LOW Date Received: 05/19/2010

% Solids: 88 Batch #: 82604

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.5	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	2.2			MS	
7440-41-7	Beryllium	3.0			MS	K
7440-43-9	Cadmium	2.5	U		MS	
7440-47-3	Chromium	450		~~N~~	MS	K
7440-50-8	Copper	45		~~N~~	MS	K
7439-92-1	Lead	6.9			MS	
7439-97-6	Mercury	0.10	U		MS	
7440-02-0	Nickel	31			MS	
7782-49-2	Selenium	2.5	U		MS	
7440-22-4	Silver	2.5	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	44			MS	J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN lw 10/7/10 SW6020

2

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-28

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10051907

Matrix (soil/water): SOIL Lab Sample ID: 10051907-002

Level (low/med): LOW Date Received: 05/19/2010

% Solids: 76 Batch #: 82604

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.1	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	3.1			MS	
7440-41-7	Beryllium	3.1			MS	K
7440-43-9	Cadmium	3.1	U		MS	
7440-47-3	Chromium	29		~~N~~	MS	K
7440-50-8	Copper	38		~~N~~	MS	K
7439-92-1	Lead	3.7			MS	
7439-97-6	Mercury	0.08	J		MS	
7440-02-0	Nickel	7.7			MS	
7782-49-2	Selenium	3.1	U		MS	
7440-22-4	Silver	3.1	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	35			MS	J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN HW 10/7/10 SW6020

3

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-30

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10051907

Matrix (soil/water): SOIL Lab Sample ID: 10051907-003

Level (low/med): LOW Date Received: 05/19/2010

% Solids: 84 Batch #: 82604

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.5	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	3.3			MS	
7440-41-7	Beryllium	2.5			MS	K
7440-43-9	Cadmium	2.5	U		MS	
7440-47-3	Chromium	33		~~N~~	MS	K
7440-50-8	Copper	15		~~N~~	MS	K
7439-92-1	Lead	7.6			MS	
7439-97-6	Mercury	0.10	U		MS	
7440-02-0	Nickel	15			MS	
7782-49-2	Selenium	2.5	U		MS	
7440-22-4	Silver	2.5	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	45			MS	J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

 AW 10/7/10 SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-34

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No.: 10051907
Matrix (soil/water): SOIL Lab Sample ID: 10051907-004
Level (low/med): LOW Date Received: 05/19/2010
% Solids: 83 Batch #: 82604

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.7	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	1.7			MS	
7440-41-7	Beryllium	2.7	U		MS	
7440-43-9	Cadmium	2.7	U		MS	
7440-47-3	Chromium	14		~~N~~	MS	K
7440-50-8	Copper	5.1		~~N~~	MS	K
7439-92-1	Lead	6.6			MS	
7439-97-6	Mercury	0.11	U		MS	
7440-02-0	Nickel	5.6			MS	
7782-49-2	Selenium	2.7	U		MS	
7440-22-4	Silver	2.7	U		MS	
7440-28-0	Thallium	0.34	J		MS	
7440-66-6	Zinc	39			MS	J

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

5

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-35

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10051907

Matrix (soil/water): SOIL Lab Sample ID: 10051907-005

Level (low/med): LOW Date Received: 05/19/2010

% Solids: 88 Batch #: 82604

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.0	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	3.9			MS	
7440-41-7	Beryllium	1.3	~~U~~		MS	K
7440-43-9	Cadmium	2.0	U		MS	
7440-47-3	Chromium	22		~~N~~	MS	K
7440-50-8	Copper	14		~~N~~	MS	K
7439-92-1	Lead	12			MS	
7439-97-6	Mercury	0.08	U		MS	
7440-02-0	Nickel	9.6			MS	
7782-49-2	Selenium	2.0	U		MS	
7440-22-4	Silver	2.0	U		MS	
7440-28-0	Thallium	0.25	J		MS	
7440-66-6	Zinc	37			MS	J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN NW 10/7/10 SW6020

6

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-33

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10051907

Matrix (soil/water): SOIL Lab Sample ID: 10051907-006

Level (low/med): LOW Date Received: 05/19/2010

% Solids: 88 Batch #: 82604

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	1.9	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	3.4			MS	
7440-41-7	Beryllium	1.2	~~J~~		MS	K
7440-43-9	Cadmium	1.9	U		MS	
7440-47-3	Chromium	16		~~N~~	MS	K
7440-50-8	Copper	13		~~N~~	MS	K
7439-92-1	Lead	11			MS	
7439-97-6	Mercury	0.08	U		MS	
7440-02-0	Nickel	8.1			MS	
7782-49-2	Selenium	1.9	U		MS	
7440-22-4	Silver	1.9	U		MS	
7440-28-0	Thallium	0.25	J		MS	
7440-66-6	Zinc	42			MS	J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN NW 10/7/10 SW6020

7

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-32

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10051907

Matrix (soil/water): SOIL Lab Sample ID: 10051907-007

Level (low/med): LOW Date Received: 05/19/2010

% Solids: 85 Batch #: 82604

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.7	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	2.5			MS	
7440-41-7	Beryllium	2.7	U		MS	
7440-43-9	Cadmium	2.7	U		MS	
7440-47-3	Chromium	3.6		~~N~~	MS	K
7440-50-8	Copper	30		~~N~~	MS	K
7439-92-1	Lead	2.9			MS	
7439-97-6	Mercury	0.11	U		MS	
7440-02-0	Nickel	2.2	J		MS	
7782-49-2	Selenium	2.7	U		MS	
7440-22-4	Silver	2.7	U		MS	
7440-28-0	Thallium	0.33	J		MS	
7440-66-6	Zinc	29			MS	J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN NW 10/7/10 SW6020

8

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-31

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10051907

Matrix (soil/water): SOIL Lab Sample ID: 10051907-009

Level (low/med): LOW Date Received: 05/19/2010

% Solids: 75 Batch #: 82604

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.0	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	1.6			MS	
7440-41-7	Beryllium	2.4	~~J~~		MS	K
7440-43-9	Cadmium	3.0	U		MS	
7440-47-3	Chromium	8.4		~~N~~	MS	K
7440-50-8	Copper	41		~~N~~	MS	K
7439-92-1	Lead	5.9			MS	
7439-97-6	Mercury	0.09	J		MS	
7440-02-0	Nickel	8.4			MS	
7782-49-2	Selenium	3.0	U		MS	
7440-22-4	Silver	3.0	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	44			MS	J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN NW 10/7/10 SW6020

9

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-AOC-35-03

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10051907

Matrix (soil/water): SOIL Lab Sample ID: 10051907-014

Level (low/med): LOW Date Received: 05/19/2010

% Solids: 86 Batch #: 82604

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.5	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	3.9			MS	
7440-41-7	Beryllium	1.6	~~J~~		MS	K
7440-43-9	Cadmium	2.5	U		MS	
7440-47-3	Chromium	33		~~N~~	MS	K
7440-50-8	Copper	17		~~N~~	MS	K
7439-92-1	Lead	15			MS	
7439-97-6	Mercury	0.10	U		MS	
7440-02-0	Nickel	15			MS	
7782-49-2	Selenium	2.5	U		MS	
7440-22-4	Silver	2.5	U		MS	
7440-28-0	Thallium	0.35	J		MS	
7440-66-6	Zinc	50			MS	J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-14-3-0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10051907

Matrix (soil/water): SOIL Lab Sample ID: 10051907-016

Level (low/med): LOW Date Received: 05/19/2010

% Solids: 79 Batch #: 82604

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.1	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	4.5			MS	
7440-41-7	Beryllium	2.1	U		MS	
7440-43-9	Cadmium	2.1	U		MS	
7440-47-3	Chromium	45		~~N~~	MS	K
7440-50-8	Copper	37		~~N~~	MS	K
7439-92-1	Lead	17			MS	
7439-97-6	Mercury	0.08	U		MS	
7440-02-0	Nickel	21			MS	
7782-49-2	Selenium	2.1	U		MS	
7440-22-4	Silver	2.1	U		MS	
7440-28-0	Thallium	0.4	U		MS	
7440-66-6	Zinc	31			MS	J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN NW 10/7/10 SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-3-2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10051907
Matrix (soil/water): SOIL Lab Sample ID: 10051907-017
Level (low/med): LOW Date Received: 05/19/2010
% Solids: 86 Batch #: 82604

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.5	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	1.8			MS	
7440-41-7	Beryllium	2.5	U		MS	
7440-43-9	Cadmium	2.5	U		MS	
7440-47-3	Chromium	25		~~N~~	MS	K
7440-50-8	Copper	24		~~N~~	MS	K
7439-92-1	Lead	6.3			MS	J
7439-97-6	Mercury	0.10	U		MS	
7440-02-0	Nickel	13			MS	
7782-49-2	Selenium	2.5	U		MS	
7440-22-4	Silver	2.5	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	30			MS	J

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-14-4-0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10051907

Matrix (soil/water): SOIL Lab Sample ID: 10051907-018

Level (low/med): LOW Date Received: 05/19/2010

% Solids: 83 Batch #: 82604

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.2	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	2.0			MS	
7440-41-7	Beryllium	2.2	U		MS	
7440-43-9	Cadmium	2.2	U		MS	
7440-47-3	Chromium	27		~~N~~	MS	K
7440-50-8	Copper	22		~~N~~	MS	K
7439-92-1	Lead	62			MS	
7439-97-6	Mercury	0.09	U		MS	
7440-02-0	Nickel	14			MS	
7782-49-2	Selenium	2.2	U		MS	
7440-22-4	Silver	2.2	U		MS	
7440-28-0	Thallium	0.4	U		MS	
7440-66-6	Zinc	33			MS	J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

13

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-14-4-2-4 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10051907

Matrix (soil/water): SOIL Lab Sample ID: 10051907-019

Level (low/med): LOW Date Received: 05/19/2010

% Solids: 83 Batch #: 82604

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.4	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	2.9			MS	
7440-41-7	Beryllium	2.4			MS	K
7440-43-9	Cadmium	2.4	U		MS	
7440-47-3	Chromium	28		~~N~~	MS	K
7440-50-8	Copper	20		~~N~~	MS	K
7439-92-1	Lead	7.7			MS	
7439-97-6	Mercury	0.10	U		MS	
7440-02-0	Nickel	16			MS	
7782-49-2	Selenium	2.4	U		MS	
7440-22-4	Silver	2.4	U		MS	
7440-28-0	Thallium	0.30	J		MS	
7440-66-6	Zinc	32			MS	J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW

FORM IA - IN 10/7/10 SW6020

14

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-14-5-0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10051907

Matrix (soil/water): SOIL Lab Sample ID: 10051907-020

Level (low/med): LOW Date Received: 05/19/2010

% Solids: 78 Batch #: 82604

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.7	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	4.3			MS	
7440-41-7	Beryllium	2.7	U		MS	
7440-43-9	Cadmium	2.7	U		MS	
7440-47-3	Chromium	40		~~N~~	MS	K
7440-50-8	Copper	34		~~N~~	MS	K
7439-92-1	Lead	96			MS	
7439-97-6	Mercury	0.06	J		MS	
7440-02-0	Nickel	20			MS	
7782-49-2	Selenium	2.7	U		MS	
7440-22-4	Silver	2.7	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	64			MS	J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

15

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-14-5-2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No : 10051907

Matrix (soil/water): SOIL Lab Sample ID: 10051907-021

Level (low/med): LOW Date Received: 05/19/2010

% Solids: 87 Batch #: 82604

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.7	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	4.7			MS	
7440-41-7	Beryllium	2.7	U		MS	
7440-43-9	Cadmium	2.7	U		MS	
7440-47-3	Chromium	25		~~N~~	MS	K
7440-50-8	Copper	18		~~N~~	MS	K
7439-92-1	Lead	14			MS	
7439-97-6	Mercury	0.11	U		MS	
7440-02-0	Nickel	13			MS	
7782-49-2	Selenium	2.7	U		MS	
7440-22-4	Silver	2.7	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	36			MS	J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN LW 10/7/10 SW6020

16

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-AOC-14-02

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10051907

Matrix (soil/water): SOIL Lab Sample ID: 10051907-023

Level (low/med): LOW Date Received: 05/19/2010

% Solids: 82 Batch #: 82604

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.3	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	4.2			MS	
7440-41-7	Beryllium	2.3	U		MS	
7440-43-9	Cadmium	2.3	U		MS	
7440-47-3	Chromium	32		~~N~~	MS	K
7440-50-8	Copper	40		~~N~~	MS	K
7439-92-1	Lead	60			MS	J
7439-97-6	Mercury	0.09	U		MS	
7440-02-0	Nickel	23			MS	
7782-49-2	Selenium	2.3	U		MS	
7440-22-4	Silver	2.3	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	54			MS	J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN LW 10/7/10 SW6020

17

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-27 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No : 10051907

Matrix (soil/water): SOIL Lab Sample ID: 10051907-024

Level (low/med): LOW Date Received: 05/19/2010

% Solids: 78 Batch #: 82568

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.05	~~B~~		MS

J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

RW 10/7/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-19

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10051907

Matrix (soil/water): SOIL Lab Sample ID: 10051907-025

Level (low/med): LOW Date Received: 05/19/2010

% Solids: 85 Batch #: 82568

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.35			MS

J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN MW 10/7/10 SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-20

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10051907

Matrix (soil/water): SOIL Lab Sample ID: 10051907-026

Level (low/med): LOW Date Received: 05/19/2010

% Solids: 85 Batch #: 82568

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.06			MS

J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

LW 10/7/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-28

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No.: 10051907

Matrix (soil/water): SOIL Lab Sample ID: 10051907-027

Level (low/med): LOW Date Received: 05/19/2010

% Solids: 81 Batch #: 82568

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.15			MS

J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 10/7/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-34

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10051907

Matrix (soil/water): SOIL Lab Sample ID: 10051907-028

Level (low/med): LOW Date Received: 05/19/2010

% Solids: 74 Batch #: 82568

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.07	~~J~~		MS

J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW

22

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-28-33

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10051907

Matrix (soil/water): SOIL Lab Sample ID: 10051907-029

Level (low/med): LOW Date Received: 05/19/2010

% Solids: 81 Batch #: 82568

Concentration Units (ug/L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.05			MS

J

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN KW 10/7/10 SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO. NW

AOC-28, ~~28~~ 29

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS _____ SDG 10051907

Matrix (soil/water): SOIL Lab Sample ID: 10051907-030

Level (low/med): LOW Date Received: 05/19/2010

% Solids: 75 Batch #: 82596

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.07	J		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN NW 10/7/10 SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-28-35

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS _____ SDG 10051907

Matrix (soil/water): SOIL Lab Sample ID: 10051907-031

Level (low/med): LOW Date Received: 05/19/2010

% Solids: 78 Batch #: 82596

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.06	J		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN NW 10/7/10 SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-28-01

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS _____ SDG 10051907

Matrix (soil/water): SOIL Lab Sample ID: 10051907-032

Level (low/med): LOW Date Received: 05/19/2010

% Solids: 76 Batch #: 82596

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.08	J		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

ENVIRONMENTAL
Data Services, Inc.

GASOLINE RANGE ORGANICS (GRO)
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051907

Client: ARGO Systems, Glen Burnie, MD Date: October 7, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-35-29	10051907-001	Soil
2	AOC-35-38	10051907-002	Soil
3	AOC-35-30	10051907-003	Soil
4	AOC-35-34	10051907-004	Soil
5	AOC-35-35	10051907-005	Soil
6	AOC-35-33	10051907-006	Soil
7	AOC-35-32	10051907-007	Soil
8	AOC-35-31	10051907-009	Soil
9	DUP-AOC-35-03	10051907-014	Soil
10	AOC-14-3-0-2	10051907-016	Soil
11	AOC-14-3-2-4	10051907-017	Soil
12	AOC-14-4-0-2	10051907-018	Soil
13	AOC-14-4-2-4	10051907-019	Soil
13MS	AOC-14-4-2-4MS	10051907-019MS	Soil
13MSD	AOC-14-4-2-4MSD	10051907-019MSD	Soil
14	AOC-14-5-0-2	10051907-020	Soil
15	AOC-14-5-2-4	10051907-021	Soil
16	DUP-AOC-14-01	10051907-022	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for soil samples.

Initial Calibration - The initial calibrations exhibited acceptable %RSD values.

Calibration Verification - The continuing calibrations exhibited acceptable %D values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier
13	TPH-GRO	OK/OK/56	None for RPD alone

Laboratory Control Sample - The LCS sample(s) exhibited acceptable %R values.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-35-30 ug/kg	DUP-AOC-35-03 ug/kg	RPD	Qualifier
TPH-GRO	57	120 U	NC	None

Compound	AOC-14-3-0-2 ug/kg	DUP-AOC-14-01 ug/kg	RPD	Qualifier
TPH-GRO	63	81	25%	None

Compound Identification - Retention times were acceptable and no further action was taken.

Compound Quantitation - No discrepancies were identified.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-29

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82517 Mod. Ref. No.: _____ SDG No : 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-001

Sample wt/vol 4.50 (g/mL) g Lab File ID: 10051963

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec 12 Date Analyzed: 05/20/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	110	J

lw
10/7/10

SW8021B_SW8015

2

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-28

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82517 Mod Ref No.: _____ SDG No : 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-002

Sample wt/vol 4.49 (g/mL) g Lab File ID: 10051964

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 24 Date Analyzed: 05/20/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	150	U

MW
10/2/10

SW8021B_SW8015

4

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-30

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82517 Mod. Ref. No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-003

Sample wt/vol 5.48 (g/mL) g Lab File ID: 10051965

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 16 Date Analyzed: 05/20/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	57	J

NW
10/7/10

SW8021B_SW8015

4

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-34

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82561 Mod. Ref. No.: _____ SDG No: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-004

Sample wt/vol 5.01 (g/mL) g Lab File ID: 10052007

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 17 Date Analyzed: 05/21/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	78	J

KW
10/7/10

SW8021B_SW8015

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-35

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82523 Mod. Ref. No.: _____ SDG No. : 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-005

Sample wt/vol 4.99 (g/mL) g Lab File ID: 10051979

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 12 Date Analyzed: 05/21/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	63	J

NW
10/7/10

6

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-33

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82523 Mod Ref No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-006

Sample wt/vol 3.64 (g/mL) g Lab File ID: 10051980

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 12 Date Analyzed: 05/21/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	160	U

KW
10/7/10

SW8021B_SW8015

7

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-32

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82523 Mod. Ref. No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-007

Sample wt/vol 5.34 (g/mL) g Lab File ID: 10051981

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 15 Date Analyzed: 05/21/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (μ L) Soil Aliquot Volume: _____ (μ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	110	U

hw
10/7/10

SW8021B_SW8015

8

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-31

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82523 Mod. Ref. No.: _____ SDG No. : 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-009

Sample wt/vol 5.14 (g/mL) g Lab File ID: 10051982

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec 25 Date Analyzed: 05/21/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (μ L) Soil Aliquot Volume: _____ (μ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	130	U

NW
10/7/10

SW8021B_SW8015

4

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-35-03

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82523 Mod. Ref. No.: _____ SDG No: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-014

Sample wt/vol 4.89 (g/mL) g Lab File ID: 10051983

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 14 Date Analyzed: 05/21/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	120	U

kw
10/7/10

SW8021B_SW8015

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-3-0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82523 Mod. Ref. No.: _____ SDG No: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-016

Sample wt/vol 5.13 (g/mL) g Lab File ID: 10051984

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 21 Date Analyzed: 05/21/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (μ L) Soil Aliquot Volume: _____ (μ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	63	J

KW
10/7/10

11

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-3-2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82523 Mod. Ref. No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-017

Sample wt/vol 5.48 (g/mL) g Lab File ID: 10051985

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 14 Date Analyzed: 05/21/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	240	

MW
10/7/10

SW8021B_SW8015

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-4-0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82523 Mod Ref No: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-018

Sample wt/vol 5.44 (g/mL) g Lab File ID: 10051986

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec 17 Date Analyzed: 05/21/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	110	U

NW
10/7/10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-4-2-4 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82523 Mod. Ref No.: _____ SDG No. : 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-019

Sample wt/vol 6.41 (g/mL) g Lab File ID: 10051990

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 17 Date Analyzed: 05/21/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	94	U

MW
10/7/10

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-5-0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82523 Mod. Ref. No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-020

Sample wt/vol 4.96 (g/mL) g Lab File ID: 10051987

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec 22 Date Analyzed: 05/21/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	79	J

hw
10/7/10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-5-2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82523 Mod Ref No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-021

Sample wt/vol 5.98 (g/mL) g Lab File ID: 10051988

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec. 13 Date Analyzed: 05/21/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	96	U

MW
10/7/10

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-14-01

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82523 Mod. Ref. No.: _____ SDG No.: 10051907

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051907-022

Sample wt/vol 4.77 (g/mL) g Lab File ID: 10051989

Level: (TRACE/LOW/MED) LOW Date Received: 05/19/2010

% Moisture: not dec 15 Date Analyzed: 05/21/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (μ L) Soil Aliquot Volume: _____ (μ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	81	J

MW
10/7/10

ENVIRONMENTAL
Data Services, Inc.

DIESEL RANGE ORGANICS (DRO)

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051907

Client: ARGO Systems, Glen Burnie, MD Date: October 7, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-35-29	10051907-001	Soil
2	AOC-35-38	10051907-002	Soil
3	AOC-35-30	10051907-003	Soil
4	AOC-35-34	10051907-004	Soil
5	AOC-35-35	10051907-005	Soil
6	AOC-35-33	10051907-006	Soil
7	AOC-35-32	10051907-007	Soil
8	AOC-35-31	10051907-009	Soil
9	DUP-AOC-35-03	10051907-014	Soil
10	AOC-14-3-0-2	10051907-016	Soil
11	AOC-14-3-2-4	10051907-017	Soil
12	AOC-14-4-0-2	10051907-018	Soil
13	AOC-14-4-2-4	10051907-019	Soil
13MS	AOC-14-4-2-4MS	10051907-019MS	Soil
13MSD	AOC-14-4-2-4MSD	10051907-019MSD	Soil
14	AOC-14-5-0-2	10051907-020	Soil
15	AOC-14-5-2-4	10051907-021	Soil
16	DUP-AOC-14-02	10051907-023	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days.

Initial Calibration - The initial calibrations exhibited acceptable %RSD values.

Calibration Verification - The continuing calibrations exhibited acceptable %D values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS sample(s) exhibited acceptable %R values.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-35-30 mg/kg	DUP-AOC-35-03 mg/kg	RPD	Qualifier
TPH-DRO	6.8	13	63%	None

Compound	AOC-14-3-2-4 mg/kg	DUP-AOC-14-02 mg/kg	RPD	Qualifier
TPH-DRO	12 U	91	NC	None

Compound Identification - Retention times were acceptable and no further action was taken.

Compound Quantitation - No discrepancies were identified.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO

AOC-35-29

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82578 Mod Ref No : _____ SDG No : 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-001

Sample wt/vol: 30.15 (g/mL):g Lab File ID: 10052434.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/22/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	11	U

MW
10/7/10

2

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-35-28

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82578 Mod. Ref No : _____ SDG No : 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-002

Sample wt/vol: 30.23 (g/mL):g Lab File ID: 10052435.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/22/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	19	

NW
10/7/10

(1) Cannot be separated from Diphenylamine

SW8015DRO

3

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-35-30

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82578 Mod. Ref No.: _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-003

Sample wt/vol: 30.15 (g/mL): g Lab File ID: 10052436.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/22/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	6.8	J

KW
10/7/10

SW8015DRO

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-34

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82578 Mod. Ref No.: _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-004

Sample wt/vol: 30.4 (g/mL):g Lab File ID: 10052437.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/22/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	9.7	J

NW
10/7/10

(1) Cannot be separated from Diphenylamine

SW8015DRO

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1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-35-35

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82578 Mod. Ref No : _____ SDG No : 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-005

Sample wt/vol: 30.28 (g/mL):g Lab File ID: 10052438.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/22/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	11	U

NW
10/7/10

SW8015DRO

6

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-35-33

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82578 Mod. Ref No : _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-006

Sample wt/vol: 30.15 (g/mL):g Lab File ID: 10052439.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/22/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	43	

NW
10/7/10

(1) Cannot be separated from Diphenylamine

SW8015DRO

7

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-35-32

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82578 Mod. Ref No.: _____ SDG No : 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-007

Sample wt/vol: 30.16 (g/mL): g Lab File ID: 10052440.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/22/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	25	

NW
10/7/10

SW8015DRO

8

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-35-31

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82578 Mod Ref No : _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-009

Sample wt/vol: 30.72 (g/mL):g Lab File ID: 10052433.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/22/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	24	

NW
10/7/10

(1) Cannot be separated from Diphenylamine

SW8015DRO

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-AOC-35-03

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82578 Mod. Ref No.: _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-014

Sample wt/vol: 30.36 (g/mL):g Lab File ID: 10052443.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/22/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	13	

hw
10/7/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-14-3-0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82578 Mod. Ref No : _____ SDG No : 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-016

Sample wt/vol: 30.59 (g/mL):g Lab File ID: 10052418.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/22/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	12	U

kw
10/7/10

(1) Cannot be separated from Diphenylamine

11

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-14-3-2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82578 Mod. Ref No.: _____ SDG No : 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-017

Sample wt/vol: 30.25 (g/mL):g Lab File ID: 10052430.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/22/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	12	U

dw
10/7/10

SW8015DRO

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-14-4-0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82578 Mod Ref No : _____ SDG No : 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-018

Sample wt/vol: 30.48 (g/mL):g Lab File ID: 10052444.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/19/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/22/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	5.9	J

NW
10/7/10

(1) Cannot be separated from Diphenylamine

SW8015DRO

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-14-4-2-4 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82578 Mod. Ref No.: _____ SDG No : 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-019

Sample wt/vol: 30.32 (g/mL):g Lab File ID: 10052455.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) CLEAR Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	12	U

NW
10/7/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-14-5-0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82578 Mod. Ref No.: _____ SDG No : 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-020

Sample wt/vol: 30.38 (g/mL):g Lab File ID: 10052457.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) CLEAR Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	7.6	J

KW
10/7/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-14-5-2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82609 Mod Ref No.: _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-021

Sample wt/vol: 30.29 (g/mL):g Lab File ID: 10052506.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) CLEAR Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	11	U

MW
10/7/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
DUP-AOC-14-02

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82578 Mod. Ref No.: _____ SDG No.: 10051907

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051907-023

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10052458.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) CLEAR Date Received: 05/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	91	

MW
10/7/10

(1) Cannot be separated from Diphenylamine

ENVIRONMENTAL
Data Services, Inc.

VOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051811

Client: ARGO Systems, Glen Burnie, MD Date: October 5, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-45C-16	10051811-001	Soil
2	AOC-45C-39	10051811-002	Soil
3	AOC-35-27	10051811-003	Soil
4	AOC-35-26	10051811-004	Soil
5	AOC-35-24	10051811-005	Soil
6	AOC-35-25	10051811-006	Soil
7	AOC-35-21	10051811-007	Soil
8	AOC-35-23	10051811-008	Soil
9	AOC-35-22	10051811-009	Soil
10	AOC-35-20	10051811-010	Soil
10MS	AOC-35-20MS	10051811-010MS	Soil
10MSD	AOC-35-20MSD	10051811-010MSD	Soil
11	AOC-35-17	10051811-016	Soil
12	AOC-35-16	10051811-017	Soil
13	AOC-35-11	10051811-018	Soil
14	AOC-35-12	10051811-019	Soil
15	AOC-35-19	10051811-020	Soil
16	AOC-35-18	10051811-021	Soil
17	DUP-AOC-35-0-2	10051811-022	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for soil samples.

GC/MS Tuning - All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values except the following.

ICAL Date	Compound	%RSD/RRF	Qualifier	Affected Samples
05/07/10	4-Methyl-2-pentanone	0.044 RRF	L/R	All samples

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
05/20/10 (0911)	2-Butanone	0.040 RRF	L/R	1-3
	4-Methyl-2-pentanone	0.038 RRF	None	See ICAL
05/20/10 (2040)	2-Butanone	26.9%/0.038 RRF	L/R	4-17
	4-Methyl-2-pentanone	0.038 RRF	None	See ICAL

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier
10	1,1-Dichloroethene	OK/33%/79	L/UL
	Methyl-t-butyl-ether	OK/26%/95	L/UL
	1,1-Dichloroethane	OK/35%/79	L/UL
	cis-1,2-Dichloroethene	OK/30%/80	L/UL
	Chloroform	OK/31%/80	L/UL
	1,1,1-Trichloroethane	OK/30%/86	L/UL
	Carbon tetrachloride	OK/26%/95	L/UL
	Benzene	OK/28%/85	L/UL
	1,2-Dichloropropane	OK/27%/84	L/UL
	Trichloroethene	OK/28%/85	L/UL
	Bromodichloromethane	OK/30%/87	L/UL
	1,1,2-Trichloroethane	OK/28%/90	L/UL
	Toluene	OK/26%/91	L/UL
	1,2-Dibromoethane	OK/29%/88	L/UL
	Dibromochloromethane	OK/29%/88	L/UL
	Bromoform	OK/29%/97	L/UL
	Tetrachloroethene	OK/21%/102	L/UL
	Chlorobenzene	OK/24%/90	L/UL
	Styrene	OK/0%/200	L/R
	1,1,2,2-Tetrachloroethane	OK/26%/92	L/UL
	Isopropylbenzene	OK/12%/117	L/UL
	n-Propylbenzene	OK/12%/121	L/UL
	1,3,5-Trimethylbenzene	OK/9%/128	L/R
	n-Butylbenzene	OK/0%/200	L/R
	1,2-Dibromo-3-Chloropropane	OK/0%/200	L/R
	All other compounds	OK/OK/High	None for RPD alone

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Trip, Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-35-20 ug/kg	DUP-AOC-35-0-2 ug/kg	RPD	Qualifier
Acetone	31 U	31	NC	None

Tentatively Identified Compounds (TICs) - TICs were not reported with this data package.

Compound Quantitation - No discrepancies were identified.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-45C-16

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82503 Mod. Ref. No : _____ SDG No. : 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-001

Sample wt/vol 5.76 (g/mL) g Lab File ID: 10052020

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 18 Date Analyzed: 05/20/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (μ L) Soil Aliquot Volume: _____ (μ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl Chloride	5	U	
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	5	U	
67-64-1	Acetone	49		
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene Chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl-t-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
78-93-3	2-Butanone	21	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
107-06-2	1,2-Dichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
71-43-2	Benzene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-15-0	Carbon Disulfide	11	U	
79-01-6	Trichloroethene	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-Pentanone	21	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
108-88-3	Toluene	5	U	

NW 10/6/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45C-16

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82503 Mod. Ref. No: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-001

Sample wt/vol 5.76 (g/mL) g Lab File ID: 10052020

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec 18 Date Analyzed: 05/20/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	11	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	42	U

MW
10/6/10

SW8260B

2

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45C-39

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82503 Mod. Ref. No: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-002

Sample wt/vol 6.55 (g/mL) g Lab File ID: 10052021

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec 18 Date Analyzed: 05/20/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl Chloride	5	U	
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	5	U	
67-64-1	Acetone	19	U	
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene Chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl-t-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
78-93-3	2-Butanone	19	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
107-06-2	1,2-Dichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
71-43-2	Benzene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-15-0	Carbon Disulfide	9	U	
79-01-6	Trichloroethene	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-Pentanone	19	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
108-88-3	Toluene	5	U	

MW 10/6/10

SW8260B

2

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45C-39

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82503 Mod. Ref. No.: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-002

Sample wt/vol 6.55 (g/mL) g Lab File ID: 10052021

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec 18 Date Analyzed: 05/20/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	9	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	37	U

hw
10/6/10

SW8260B

3

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-27

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82503 Mod. Ref. No.: _____ SDG No. : 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-003

Sample wt/vol 5.71 (g/mL) g Lab File ID: 10052022

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 16 Date Analyzed: 05/20/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl Chloride	5	U	
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	5	U	
67-64-1	Acetone	36		
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene Chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl-t-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
78-93-3	2-Butanone	21	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
107-06-2	1,2-Dichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
71-43-2	Benzene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-15-0	Carbon Disulfide	10	U	
79-01-6	Trichloroethene	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-Pentanone	21	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
108-88-3	Toluene	5	U	

NW 10/6/10

SW8260B

3

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-27

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82503 Mod. Ref. No.: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-003

Sample wt/vol 5.71 (g/mL) g Lab File ID: 10052022

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec 16 Date Analyzed: 05/20/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	10	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	42	U

MW 10/6/10

SW8260B

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-26

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82522 Mod. Ref. No.: _____ SDG No. : 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-004

Sample wt/vol 6.37 (g/mL) g Lab File ID: 10052031

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 17 Date Analyzed: 05/20/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl Chloride	5	U	
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	5	U	
67-64-1	Acetone	12	J	
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene Chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl-t-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
78-93-3	2-Butanone	19	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
107-06-2	1,2-Dichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
71-43-2	Benzene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-15-0	Carbon Disulfide	9	U	
79-01-6	Trichloroethene	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-Pentanone	19	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
108-88-3	Toluene	5	U	

hw 10/6/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-26

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82522 Mod Ref. No.: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-004

Sample wt/vol 6.37 (g/mL) g Lab File ID: 10052031

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 17 Date Analyzed: 05/20/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	9	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	38	U

NW
10/6/10

5

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-24

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82522 Mod. Ref. No.: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-005

Sample wt/vol 6.02 (g/mL) g Lab File ID: 10052032

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 16 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (μ L) Soil Aliquot Volume: _____ (μ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl Chloride	5	U	
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	5	U	
67-64-1	Acetone	27		
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene Chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl-t-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
78-93-3	2-Butanone	20	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
107-06-2	1,2-Dichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
71-43-2	Benzene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-15-0	Carbon Disulfide	10	U	
79-01-6	Trichloroethene	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-Pentanone	20	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
108-88-3	Toluene	5	U	

nw
10/6/10

SW8260B

5

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-24

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82522 Mod Ref. No.: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-005

Sample wt/vol 6.02 (g/mL) g Lab File ID: 10052032

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 16 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	10	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	40	U

KW 10/6/10

SW8260B

6

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-25

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82522 Mod. Ref. No.: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-006

Sample wt/vol 4.77 (g/mL) g Lab File ID: 10052033

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 17 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	6	U	
75-01-4	Vinyl Chloride	6	U	
74-83-9	Bromomethane	6	U	
75-00-3	Chloroethane	6	U	
67-64-1	Acetone	25	U	
75-35-4	1,1-Dichloroethene	6	U	
75-09-2	Methylene Chloride	6	U	
156-60-5	trans-1,2-Dichloroethene	6	U	
1634-04-4	Methyl-t-butyl ether	6	U	
75-34-3	1,1-Dichloroethane	6	U	
78-93-3	2-Butanone	25	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	6	U	
67-66-3	Chloroform	6	U	
71-55-6	1,1,1-Trichloroethane	6	U	
107-06-2	1,2-Dichloroethane	6	U	
56-23-5	Carbon Tetrachloride	6	U	
71-43-2	Benzene	6	U	
78-87-5	1,2-Dichloropropane	6	U	
75-15-0	Carbon Disulfide	13	U	
79-01-6	Trichloroethene	6	U	
75-27-4	Bromodichloromethane	6	U	
10061-01-5	cis-1,3-Dichloropropene	6	U	
108-10-1	4-Methyl-2-Pentanone	25	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	6	U	
79-00-5	1,1,2-Trichloroethane	6	U	
108-88-3	Toluene	6	U	

MW 10/6/10

SW8260B

6

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-25

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82522 Mod Ref. No: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-006

Sample wt/vol 4.77 (g/mL) g Lab File ID: 10052033

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec 17 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	13	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	51	U

MW 10/6/10

SW8260B

7

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-21

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82522 Mod. Ref No : _____ SDG No. : 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-007

Sample wt/vol 5.92 (g/mL) g Lab File ID: 10052034

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec 16 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl Chloride	5	U	
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	5	U	
67-64-1	Acetone	44		
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene Chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl-t-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
78-93-3	2-Butanone	20	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
107-06-2	1,2-Dichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
71-43-2	Benzene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-15-0	Carbon Disulfide	10	U	
79-01-6	Trichloroethene	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-Pentanone	20	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
108-88-3	Toluene	5	U	

NEJ 10/6/10

SW8260B

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-21

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82522 Mod. Ref. No.: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-007

Sample wt/vol 5.92 (g/mL) g Lab File ID: 10052034

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 16 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	10	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	40	U

MW 10/6/10

SW8260B

8

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

AOC-35-23

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82522 Mod. Ref. No.: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-008

Sample wt/vol 5.07 (g/mL) g Lab File ID: 10052035

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 16 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	6	U	
75-01-4	Vinyl Chloride	6	U	
74-83-9	Bromomethane	6	U	
75-00-3	Chloroethane	6	U	
67-64-1	Acetone	44		
75-35-4	1,1-Dichloroethene	6	U	
75-09-2	Methylene Chloride	6	U	
156-60-5	trans-1,2-Dichloroethene	6	U	
1634-04-4	Methyl-t-butyl ether	6	U	
75-34-3	1,1-Dichloroethane	6	U	
78-93-3	2-Butanone	23	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	6	U	
67-66-3	Chloroform	6	U	
71-55-6	1,1,1-Trichloroethane	6	U	
107-06-2	1,2-Dichloroethane	6	U	
56-23-5	Carbon Tetrachloride	6	U	
71-43-2	Benzene	6	U	
78-87-5	1,2-Dichloropropane	6	U	
75-15-0	Carbon Disulfide	12	U	
79-01-6	Trichloroethene	6	U	
75-27-4	Bromodichloromethane	6	U	
10061-01-5	cis-1,3-Dichloropropene	6	U	
108-10-1	4-Methyl-2-Pentanone	23	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	6	U	
79-00-5	1,1,2-Trichloroethane	6	U	
108-88-3	Toluene	6	U	

MW 10/6/10

SW8260B

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-23

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82522 Mod Ref. No.: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-008

Sample wt/vol 5.07 (g/mL) g Lab File ID: 10052035

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 16 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	12	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	47	U

LW 10/6/10

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-22

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82522 Mod Ref. No.: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-009

Sample wt/vol 5.43 (g/mL) g Lab File ID: 10052036

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec 17 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	6	U	
75-01-4	Vinyl Chloride	6	U	
74-83-9	Bromomethane	6	U	
75-00-3	Chloroethane	6	U	
67-64-1	Acetone	28		
75-35-4	1,1-Dichloroethene	6	U	
75-09-2	Methylene Chloride	6	U	
156-60-5	trans-1,2-Dichloroethene	6	U	
1634-04-4	Methyl-t-butyl ether	6	U	
75-34-3	1,1-Dichloroethane	6	U	
78-93-3	2-Butanone	22	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	6	U	
67-66-3	Chloroform	6	U	
71-55-6	1,1,1-Trichloroethane	6	U	
107-06-2	1,2-Dichloroethane	6	U	
56-23-5	Carbon Tetrachloride	6	U	
71-43-2	Benzene	6	U	
78-87-5	1,2-Dichloropropane	6	U	
75-15-0	Carbon Disulfide	11	U	
79-01-6	Trichloroethene	6	U	
75-27-4	Bromodichloromethane	6	U	
10061-01-5	cis-1,3-Dichloropropene	6	U	
108-10-1	4-Methyl-2-Pentanone	22	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	6	U	
79-00-5	1,1,2-Trichloroethane	6	U	
108-88-3	Toluene	6	U	

MW 10/6/10

SW8260B

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-22

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82522 Mod. Ref. No.: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-009

Sample wt/vol 5.43 (g/mL) g Lab File ID: 10052036

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 17 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	11	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	44	U

MW 10/6/10

SW8260B

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-20 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82522 Mod. Ref. No.: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-010

Sample wt/vol 4.24 (g/mL) g Lab File ID: 10052037

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 24 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	8	U	
75-01-4	Vinyl Chloride	8	U	
74-83-9	Bromomethane	8	U	
75-00-3	Chloroethane	8	U	
67-64-1	Acetone	31	U	
75-35-4	1,1-Dichloroethene	8	~~U~~	UL
75-09-2	Methylene Chloride	8	U	
156-60-5	trans-1,2-Dichloroethene	8	U	
1634-04-4	Methyl-t-butyl ether	8	U	UL
75-34-3	1,1-Dichloroethane	8	U	UL
78-93-3	2-Butanone	31	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	8	U	UL
67-66-3	Chloroform	8	U	↓
71-55-6	1,1,1-Trichloroethane	8	U	↓
107-06-2	1,2-Dichloroethane	8	U	
56-23-5	Carbon Tetrachloride	8	U	UL
71-43-2	Benzene	8	U	↓
78-87-5	1,2-Dichloropropane	8	U	↓
75-15-0	Carbon Disulfide	16	U	
79-01-6	Trichloroethene	8	U	UL
75-27-4	Bromodichloromethane	8	U	UL
10061-01-5	cis-1,3-Dichloropropene	8	U	
108-10-1	4-Methyl-2-Pentanone	31	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	8	U	
79-00-5	1,1,2-Trichloroethane	8	U	UL
108-88-3	Toluene	8	U	UL

UW 10/6/10

SW8260B

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-20 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82522 Mod. Ref. No.: _____ SDG No: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-010

Sample wt/vol 4.24 (g/mL) g Lab File ID: 10052037

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec 24 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
106-93-4	1,2-Dibromoethane	8	~~U~~	UL
124-48-1	Dibromochloromethane	8	~~U~~	UL
75-25-2	Bromoform	8	U	
127-18-4	Tetrachloroethene	8	~~U~~	UL
108-90-7	Chlorobenzene	8	~~U~~	UL
100-41-4	Ethylbenzene	8	U	
108-38-3	m,p-Xylenes	16	U	
100-42-5	Styrene	8	~~U~~	R
79-34-5	1,1,2,2-Tetrachloroethane	8	~~U~~	UL
95-47-6	o-Xylene	8	U	
98-82-8	Isopropylbenzene	8	~~U~~	UL
103-65-1	n-Propylbenzene	8	~~U~~	UL
108-67-8	1,3,5-Trimethylbenzene	8	~~U~~	R
95-63-6	1,2,4-Trimethylbenzene	8	U	
104-51-8	n-Butylbenzene	8	~~U~~	R
96-12-8	1,2-Dibromo-3-Chloropropane	62	~~U~~	R

lw 10/6/10

SW8260B

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-17

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82522 Mod. Ref. No.: _____ SDG No. : 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-016

Sample wt/vol 4.88 (g/mL) g Lab File ID: 10052040

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 22 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	7	U	
75-01-4	Vinyl Chloride	7	U	
74-83-9	Bromomethane	7	U	
75-00-3	Chloroethane	7	U	
67-64-1	Acetone	60		
75-35-4	1,1-Dichloroethene	7	U	
75-09-2	Methylene Chloride	7	U	
156-60-5	trans-1,2-Dichloroethene	7	U	
1634-04-4	Methyl-t-butyl ether	7	U	
75-34-3	1,1-Dichloroethane	7	U	
78-93-3	2-Butanone	26	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	7	U	
67-66-3	Chloroform	7	U	
71-55-6	1,1,1-Trichloroethane	7	U	
107-06-2	1,2-Dichloroethane	7	U	
56-23-5	Carbon Tetrachloride	7	U	
71-43-2	Benzene	7	U	
78-87-5	1,2-Dichloropropane	7	U	
75-15-0	Carbon Disulfide	13	U	
79-01-6	Trichloroethene	7	U	
75-27-4	Bromodichloromethane	7	U	
10061-01-5	cis-1,3-Dichloropropene	7	U	
108-10-1	4-Methyl-2-Pentanone	26	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	7	U	
79-00-5	1,1,2-Trichloroethane	7	U	
108-88-3	Toluene	7	U	

NW 10/6/10

SW8260B

11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-17

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82522 Mod. Ref. No.: _____ SDG No. : 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-016

Sample wt/vol 4.88 (g/mL) g Lab File ID: 10052040

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 22 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	7	U
124-48-1	Dibromochloromethane	7	U
75-25-2	Bromoform	7	U
127-18-4	Tetrachloroethene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
108-38-3	m,p-Xylenes	13	U
100-42-5	Styrene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U
95-47-6	o-Xylene	7	U
98-82-8	Isopropylbenzene	7	U
103-65-1	n-Propylbenzene	7	U
108-67-8	1,3,5-Trimethylbenzene	7	U
95-63-6	1,2,4-Trimethylbenzene	7	U
104-51-8	n-Butylbenzene	7	U
96-12-8	1,2-Dibromo-3-Chloropropane	53	U

MW 10/6/10

SW8260B

12

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-16

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82522 Mod. Ref No.: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-017

Sample wt/vol 5.42 (g/mL) g Lab File ID: 10052041

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 15 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl Chloride	5	U	
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	5	U	
67-64-1	Acetone	26		
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene Chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl-t-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
78-93-3	2-Butanone	22	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
107-06-2	1,2-Dichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
71-43-2	Benzene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-15-0	Carbon Disulfide	11	U	
79-01-6	Trichloroethene	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-Pentanone	22	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
108-88-3	Toluene	5	U	

MW 10/6/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-16

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82522 Mod. Ref. No: _____ SDG No: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-017

Sample wt/vol 5.42 (g/mL) g Lab File ID: 10052041

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 15 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	11	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	43	U

NW 10/6/10

13

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-11

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82522 Mod. Ref. No.: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-018

Sample wt/vol 5.94 (g/mL) g Lab File ID: 10052042

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 15 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
67-64-1	Acetone	48	
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl-t-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	20	~~U~~ R
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-15-0	Carbon Disulfide	10	U
79-01-6	Trichloroethene	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-Pentanone	20	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
108-88-3	Toluene	5	U

MW 10/6/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-11

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82522 Mod Ref. No.: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-018

Sample wt/vol 5.94 (g/mL) g Lab File ID: 10052042

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 15 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	10	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	40	U

NW 10/6/10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-12

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82522 Mod. Ref. No.: _____ SDG No. : 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-019

Sample wt/vol 5.38 (g/mL) g Lab File ID: 10052043

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 17 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	6	U	
75-01-4	Vinyl Chloride	6	U	
74-83-9	Bromomethane	6	U	
75-00-3	Chloroethane	6	U	
67-64-1	Acetone	50		
75-35-4	1,1-Dichloroethene	6	U	
75-09-2	Methylene Chloride	6	U	
156-60-5	trans-1,2-Dichloroethene	6	U	
1634-04-4	Methyl-t-butyl ether	6	U	
75-34-3	1,1-Dichloroethane	6	U	
78-93-3	2-Butanone	22	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	6	U	
67-66-3	Chloroform	6	U	
71-55-6	1,1,1-Trichloroethane	6	U	
107-06-2	1,2-Dichloroethane	6	U	
56-23-5	Carbon Tetrachloride	6	U	
71-43-2	Benzene	6	U	
78-87-5	1,2-Dichloropropane	6	U	
75-15-0	Carbon Disulfide	11	U	
79-01-6	Trichloroethene	6	U	
75-27-4	Bromodichloromethane	6	U	
10061-01-5	cis-1,3-Dichloropropene	6	U	
108-10-1	4-Methyl-2-Pentanone	22	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	6	U	
79-00-5	1,1,2-Trichloroethane	6	U	
108-88-3	Toluene	6	U	

NW 10/6/10

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-12

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82522 Mod Ref. No : _____ SDG No. : 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-019

Sample wt/vol 5.38 (g/mL) g Lab File ID: 10052043

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec 17 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	11	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	45	U

AW 10/6/10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-19

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82522 Mod. Ref. No.: _____ SDG No: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-020

Sample wt/vol 5.03 (g/mL) g Lab File ID: 10052044

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 15 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	6	U	
75-01-4	Vinyl Chloride	6	U	
74-83-9	Bromomethane	6	U	
75-00-3	Chloroethane	6	U	
67-64-1	Acetone	25		
75-35-4	1,1-Dichloroethene	6	U	
75-09-2	Methylene Chloride	6	U	
156-60-5	trans-1,2-Dichloroethene	6	U	
1634-04-4	Methyl-t-butyl ether	6	U	
75-34-3	1,1-Dichloroethane	6	U	
78-93-3	2-Butanone	23	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	6	U	
67-66-3	Chloroform	6	U	
71-55-6	1,1,1-Trichloroethane	6	U	
107-06-2	1,2-Dichloroethane	6	U	
56-23-5	Carbon Tetrachloride	6	U	
71-43-2	Benzene	6	U	
78-87-5	1,2-Dichloropropane	6	U	
75-15-0	Carbon Disulfide	12	U	
79-01-6	Trichloroethene	6	U	
75-27-4	Bromodichloromethane	6	U	
10061-01-5	cis-1,3-Dichloropropene	6	U	
108-10-1	4-Methyl-2-Pentanone	23	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	6	U	
79-00-5	1,1,2-Trichloroethane	6	U	
108-88-3	Toluene	6	U	

RW 10/6/10

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-19

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82522 Mod. Ref. No: _____ SDG No: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-020

Sample wt/vol 5.03 (g/mL) g Lab File ID: 10052044

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 15 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	12	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	47	U

JCW 10/6/10

16

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-18

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82522 Mod. Ref. No.: _____ SDG No: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-021

Sample wt/vol 5.60 (g/mL) g Lab File ID: 10052045

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 16 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl Chloride	5	U	
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	5	U	
67-64-1	Acetone	78		
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene Chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl-t-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
78-93-3	2-Butanone	21	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
107-06-2	1,2-Dichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
71-43-2	Benzene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-15-0	Carbon Disulfide	11	U	
79-01-6	Trichloroethene	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-Pentanone	21	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
108-88-3	Toluene	5	U	

LW 10/6/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-18

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82522 Mod. Ref. No : _____ SDG No : 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-021

Sample wt/vol 5.60 (g/mL) g Lab File ID: 10052045

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 16 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	11	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	43	U

MW 10/6/10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-35-0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82522 Mod. Ref. No.: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-022

Sample wt/vol 4.98 (g/mL) g Lab File ID: 10052046

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec 25 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	7	U	
75-01-4	Vinyl Chloride	7	U	
74-83-9	Bromomethane	7	U	
75-00-3	Chloroethane	7	U	
67-64-1	Acetone	31		
75-35-4	1,1-Dichloroethene	7	U	
75-09-2	Methylene Chloride	7	U	
156-60-5	trans-1,2-Dichloroethene	7	U	
1634-04-4	Methyl-t-butyl ether	7	U	
75-34-3	1,1-Dichloroethane	7	U	
78-93-3	2-Butanone	27	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	7	U	
67-66-3	Chloroform	7	U	
71-55-6	1,1,1-Trichloroethane	7	U	
107-06-2	1,2-Dichloroethane	7	U	
56-23-5	Carbon Tetrachloride	7	U	
71-43-2	Benzene	7	U	
78-87-5	1,2-Dichloropropane	7	U	
75-15-0	Carbon Disulfide	13	U	
79-01-6	Trichloroethene	7	U	
75-27-4	Bromodichloromethane	7	U	
10061-01-5	cis-1,3-Dichloropropene	7	U	
108-10-1	4-Methyl-2-Pentanone	27	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	7	U	
79-00-5	1,1,2-Trichloroethane	7	U	
108-88-3	Toluene	7	U	

MW 10/6/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-35-0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82522 Mod Ref No.: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-022

Sample wt/vol 4.98 (g/mL) g Lab File ID: 10052046

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 25 Date Analyzed: 05/21/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	7	U
124-48-1	Dibromochloromethane	7	U
75-25-2	Bromoform	7	U
127-18-4	Tetrachloroethene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
108-38-3	m,p-Xylenes	13	U
100-42-5	Styrene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U
95-47-6	o-Xylene	7	U
98-82-8	Isopropylbenzene	7	U
103-65-1	n-Propylbenzene	7	U
108-67-8	1,3,5-Trimethylbenzene	7	U
95-63-6	1,2,4-Trimethylbenzene	7	U
104-51-8	n-Butylbenzene	7	U
96-12-8	1,2-Dibromo-3-Chloropropane	54	U

MW 10/6/10

ENVIRONMENTAL
Data Services, Inc.

SEMIVOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051811

Client: ARGO Systems, Glen Burnie, MD Date: October 5, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-35-27	10051811-003	Soil
2	AOC-35-26	10051811-004	Soil
3	AOC-35-24	10051811-005	Soil
4	AOC-35-25	10051811-006	Soil
5	AOC-35-21	10051811-007	Soil
6	AOC-35-23	10051811-008	Soil
7	AOC-35-22	10051811-009	Soil
8	AOC-35-20	10051811-010	Soil
8MS	AOC-35-20MS	10051811-010MS	Soil
8MSD	AOC-35-20MSD	10051811-010MSD	Soil
9	AOC-45C-43	10051811-011	Soil
10	AOC-45C-27	10051811-012	Soil
11	AOC-45C-23	10051811-013	Soil
12	AOC-45C-3	10051811-014	Soil
13	AOC-45C-DUP-01	10051811-015	Soil
14	AOC-35-17	10051811-016	Soil
15	AOC-35-16	10051811-017	Soil
16	AOC-35-11	10051811-018	Soil
17	AOC-35-12	10051811-019	Soil
18	AOC-35-19	10051811-020	Soil
19	AOC-35-18	10051811-021	Soil
20	DUP-AOC-35-0-2	10051811-022	Soil
21	AOC-45A-47	10051811-023	Soil
22	AOC-45A-44	10051811-024	Soil
22MS	AOC-45A-44MS	10051811-024MS	Soil
22MSD	AOC-45A-44MSD	10051811-024MSD	Soil
23	AOC-1A(689)-1/0-2	10051811-025	Soil
24	AOC-45A-17	10051811-026	Soil
25	AOC-45A-69	10051811-027	Soil
26	AOC-45A-DUP-01	10051811-028	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
05/20/10 (1150)	Bis(2-ethylhexyl)adipate	26.2%	None	All ND
05/21/10 (1721)	Benzo(g,h,i)perylene	38.8%	J	12, 22
	Indeno(1,2,3-c,d)pyrene	26.5%	J	12, 22
	Dibenz(a,h)anthracene	25.7%	J	12, 22
	Bis(2-chloroethyl)ether	25.5%	None	All ND
	n-Nitrosodi-n-propylamine	27.8%	None	All ND
05/22/10 (1410)	n-Nitrosodi-n-propylamine	26.5%	None	All ND

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD samples exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier
22	Benzo(g,h,i)perylene	OK/OK/48	None for RPD alone
	Dibenz(a,h)anthracene	OK/OK/37	
	2,4-Dinitrophenol	OK/OK/45	
	Hexachlorocyclopentadiene	OK/OK/83	
	Indeno(1,2,3-c,d)pyrene	OK/OK/43	

Laboratory Control Sample - The LCS sample exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-45C-27 ug/kg	AOC-45C-DUP-01 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-35-20 ug/kg	DUP-AOC-35-0-2 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-45A-47 ug/kg	AOC-45A-DUP-01 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Tentatively Identified Compounds (TICs) - TICs were not reported.

Compound Quantitation - No discrepancies were identified.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-27

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82549 Mod. Ref No : _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-003

Sample wt/vol: 30.01 (g/mL): g Lab File ID: 10052020.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/20/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	51	
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	400	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	400	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	400	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

MW 10/6/10

SW8270C

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-35-27

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82549 Mod. Ref No : _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-003

Sample wt/vol: 30.01 (g/mL): g Lab File ID: 10052020.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	79	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

NW 10/6/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-26

2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82549 Mod Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-004

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10052021.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/20/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	400	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	400	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	400	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

NW 10/6/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-26

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82549 Mod. Ref No.: _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-004

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10052021.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	80	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

NW 10/6/10

SW8270C

3

ID - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-24

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82549 Mod Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-005

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10052022.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/20/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	400	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	400	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	400	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

LW 10/6/10

SW8270C

3

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-24

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82549 Mod. Ref No : _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-005

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10052022.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	79	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine NW 10/6/10

SW8270C

4

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-25

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82549 Mod. Ref No : _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-006

Sample wt/vol: 30.09 (g/mL):g Lab File ID: 10052023.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	400	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	400	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	400	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

SW8270C

AW 10/6/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-25

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82549 Mod. Ref No.: _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-006

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10052023.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	80	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine RW 10/6/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-21

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82549 Mod. Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-007

Sample wt/vol: 30.04 (g/mL): g Lab File ID: 10052019.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	400	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	400	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	400	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

NW 10/6/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-21

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82549 Mod. Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-007

Sample wt/vol: 30.04 (g/mL): g Lab File ID: 10052019.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	79	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

NLS 10/6/10

SW8270C

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1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-35-23

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82549 Mod Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-008

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10052014.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	400	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	400	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	400	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

SW8270C

lwl 10/6/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-23

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82549 Mod Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-008

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10052014.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	79	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

NEJ 10/6/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-22

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82549 Mod. Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-009

Sample wt/vol: 30.03 (g/mL): g Lab File ID: 10052011.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/20/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	400	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	400	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	400	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

NW 10/6/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-22

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82549 Mod. Ref No.: _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-009

Sample wt/vol: 30.03 (g/mL): g Lab File ID: 10052011.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/20/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	80	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

NW 10/6/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-20 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82549 Mod. Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-010

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10052016.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/20/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	220	U
208-96-8	Acenaphthylene	220	U
120-12-7	Anthracene	220	U
56-55-3	Benzo(a)anthracene	220	U
50-32-8	Benzo(a)pyrene	31	U
205-99-2	Benzo(b)fluoranthene	220	U
191-24-2	Benzo(g,h,i)perylene	220	U
207-08-9	Benzo(k)fluoranthene	220	U
111-44-4	bis(2-chloroethyl) ether	220	U
108-60-1	bis(2-chloroisopropyl) ether	220	U
117-81-7	bis(2-ethylhexyl) phthalate	220	U
84-74-2	Di-n-butyl phthalate	440	U
86-74-8	Carbazole	220	U
106-47-8	4-Chloroaniline	440	U
91-58-7	2-Chloronaphthalene	220	U
95-57-8	2-Chlorophenol	220	U
218-01-9	Chrysene	220	U
53-70-3	Dibenz(a,h)Anthracene	31	U
132-64-9	Dibenzofuran	220	U
95-50-1	1,2-Dichlorobenzene	220	U
541-73-1	1,3-Dichlorobenzene	220	U
106-46-7	1,4-Dichlorobenzene	220	U
91-94-1	3,3-Dichlorobenzidine	220	U
120-83-2	2,4-Dichlorophenol	220	U
84-66-2	Diethyl phthalate	220	U
105-67-9	2,4-Dimethylphenol	220	U
51-28-5	2,4-Dinitrophenol	440	U
121-14-2	2,4-Dinitrotoluene	220	U
606-20-2	2,6-Dinitrotoluene	220	U
206-44-0	Fluoranthene	220	U
86-73-7	Fluorene	220	U
118-74-1	Hexachlorobenzene	220	U
87-68-3	Hexachlorobutadiene	220	U
77-47-4	Hexachlorocyclopentadiene	220	U

SW8270C

NW 10/6/10

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1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-35-20 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82549 Mod. Ref No.: _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-010

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10052016.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/20/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	220	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	220	U
78-59-1	Isophorone	220	U
91-57-6	2-Methylnaphthalene	220	U
95-48-7	2-Methyl phenol	220	U
	3&4-Methylphenol	220	U
91-20-3	Naphthalene	220	U
98-95-3	Nitrobenzene	220	U
621-64-7	N-Nitrosodi-n-propyl amine	87	U
86-30-6	N-Nitrosodiphenylamine (1)	220	U
87-86-5	Pentachlorophenol	440	U
85-01-8	Phenanthrene	220	U
108-95-2	Phenol	220	U
129-00-0	Pyrene	220	U
103-23-1	Bis(2-ethylhexyl)adipate	220	U
120-82-1	1,2,4-Trichlorobenzene	220	U
88-06-2	2,4,6-Trichlorophenol	220	U
95-95-4	2,4,5-Trichlorophenol	220	U

(1) Cannot be separated from Diphenylamine

NW 10/6/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-45C-43

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82549 Mod. Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-011

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10052013.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/20/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	380	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	380	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

MW 10/6/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-45C-43

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82549 Mod. Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-011

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10052013.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	76	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

hw 10/6/10

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-45C-27

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82549 Mod Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-012

Sample wt/vol: 30.05 (g/mL):g Lab File ID: 10052018.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	380	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	380	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

SW8270C

KW 10/6/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-45C-27

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82549 Mod. Ref No : _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-012

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10052018.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/20/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	76	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

hw 10/6/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-45C-23

11

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82549 Mod. Ref No.: _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-013

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10052015.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/20/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	380	
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	520	
56-55-3	Benzo(a)anthracene	1,300	
50-32-8	Benzo(a)pyrene	1,300	
205-99-2	Benzo(b)fluoranthene	1,400	
191-24-2	Benzo(g,h,i)perylene	790	
207-08-9	Benzo(k)fluoranthene	1,100	
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	400	U
86-74-8	Carbazole	230	
106-47-8	4-Chloroaniline	400	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	1,400	
53-70-3	Dibenz(a,h)Anthracene	160	
132-64-9	Dibenzofuran	110	J
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	400	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	2,800	
86-73-7	Fluorene	220	
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

MW 10/6/10

SW8270C

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-45C-23

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82549 Mod. Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-013

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10052015.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	770	
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	80	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	2,200	
108-95-2	Phenol	200	U
129-00-0	Pyrene	2,800	
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

MW 10/6/10

SW8270C

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1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO

AOC-45C-3

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82582 Mod. Ref No.: _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-014

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10052126.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	160	J
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	150	J
56-55-3	Benzo(a)anthracene	400	
50-32-8	Benzo(a)pyrene	360	
205-99-2	Benzo(b)fluoranthene	330	
191-24-2	Benzo(g,h,i)perylene	270	J
207-08-9	Benzo(k)fluoranthene	270	
111-44-4	bis(2-chloroethyl) ether	180	U
108-60-1	bis(2-chloroisopropyl) ether	180	U
117-81-7	bis(2-ethylhexyl) phthalate	180	U
84-74-2	Di-n-butyl phthalate	370	U
86-74-8	Carbazole	180	U
106-47-8	4-Chloroaniline	370	U
91-58-7	2-Chloronaphthalene	180	U
95-57-8	2-Chlorophenol	180	U
218-01-9	Chrysene	430	
53-70-3	Dibenz(a,h)Anthracene	63	J
132-64-9	Dibenzofuran	180	U
95-50-1	1,2-Dichlorobenzene	180	U
541-73-1	1,3-Dichlorobenzene	180	U
106-46-7	1,4-Dichlorobenzene	180	U
91-94-1	3,3-Dichlorobenzidine	180	U
120-83-2	2,4-Dichlorophenol	180	U
84-66-2	Diethyl phthalate	180	U
105-67-9	2,4-Dimethylphenol	180	U
51-28-5	2,4-Dinitrophenol	370	U
121-14-2	2,4-Dinitrotoluene	180	U
606-20-2	2,6-Dinitrotoluene	180	U
206-44-0	Fluoranthene	740	
86-73-7	Fluorene	140	J
118-74-1	Hexachlorobenzene	180	U
87-68-3	Hexachlorobutadiene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U

NW 10/6/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-45C-3

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82582 Mod. Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-014

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10052126.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	260	J
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	100	J
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	110	J
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	74	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	910	
108-95-2	Phenol	180	U
129-00-0	Pyrene	920	
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine

KW 10/6/10

SW8270C

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1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-45C-DUP-01

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82582 Mod. Ref No : _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-015

Sample wt/vol: 30.8 (g/mL):g Lab File ID: 10052127.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	25	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
111-44-4	bis(2-chloroethyl) ether	180	U
108-60-1	bis(2-chloroisopropyl) ether	180	U
117-81-7	bis(2-ethylhexyl) phthalate	180	U
84-74-2	Di-n-butyl phthalate	360	U
86-74-8	Carbazole	180	U
106-47-8	4-Chloroaniline	360	U
91-58-7	2-Chloronaphthalene	180	U
95-57-8	2-Chlorophenol	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	25	U
132-64-9	Dibenzofuran	180	U
95-50-1	1,2-Dichlorobenzene	180	U
541-73-1	1,3-Dichlorobenzene	180	U
106-46-7	1,4-Dichlorobenzene	180	U
91-94-1	3,3-Dichlorobenzidine	180	U
120-83-2	2,4-Dichlorophenol	180	U
84-66-2	Diethyl phthalate	180	U
105-67-9	2,4-Dimethylphenol	180	U
51-28-5	2,4-Dinitrophenol	360	U
121-14-2	2,4-Dinitrotoluene	180	U
606-20-2	2,6-Dinitrotoluene	180	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
118-74-1	Hexachlorobenzene	180	U
87-68-3	Hexachlorobutadiene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U

NW 10/6/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-45C-DUP-01

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82582 Mod. Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-015

Sample wt/vol: 30.8 (g/mL):g Lab File ID: 10052127.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	72	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	180	U
108-95-2	Phenol	180	U
129-00-0	Pyrene	180	U
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine

NW 10/6/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-17

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82585 Mod. Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-016

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10052218.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/22/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	30	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
111-44-4	bis(2-chloroethyl) ether	210	U
108-60-1	bis(2-chloroisopropyl) ether	210	U
117-81-7	bis(2-ethylhexyl) phthalate	210	U
84-74-2	Di-n-butyl phthalate	430	U
86-74-8	Carbazole	210	U
106-47-8	4-Chloroaniline	430	U
91-58-7	2-Chloronaphthalene	210	U
95-57-8	2-Chlorophenol	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	30	U
132-64-9	Dibenzofuran	210	U
95-50-1	1,2-Dichlorobenzene	210	U
541-73-1	1,3-Dichlorobenzene	210	U
106-46-7	1,4-Dichlorobenzene	210	U
91-94-1	3,3-Dichlorobenzidine	210	U
120-83-2	2,4-Dichlorophenol	210	U
84-66-2	Diethyl phthalate	210	U
105-67-9	2,4-Dimethylphenol	210	U
51-28-5	2,4-Dinitrophenol	430	U
121-14-2	2,4-Dinitrotoluene	210	U
606-20-2	2,6-Dinitrotoluene	210	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
118-74-1	Hexachlorobenzene	210	U
87-68-3	Hexachlorobutadiene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U

MW 10/6/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-17

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82585 Mod Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-016

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10052218.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/21/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/22/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
78-59-1	Isophorone	210	U
91-57-6	2-Methylnaphthalene	210	U
95-48-7	2-Methyl phenol	210	U
	3&4-Methylphenol	210	U
91-20-3	Naphthalene	210	U
98-95-3	Nitrobenzene	210	U
621-64-7	N-Nitrosodi-n-propyl amine	85	U
86-30-6	N-Nitrosodiphenylamine (1)	210	U
87-86-5	Pentachlorophenol	430	U
85-01-8	Phenanthrene	210	U
108-95-2	Phenol	210	U
129-00-0	Pyrene	210	U
103-23-1	Bis(2-ethylhexyl)adipate	210	U
120-82-1	1,2,4-Trichlorobenzene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U

(1) Cannot be separated from Diphenylamine

NW 10/6/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-16

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82585 Mod. Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-017

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10052216.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/22/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	390	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	390	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	27	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	390	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

MW 10/6/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-16

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82585 Mod. Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-017

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10052216.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/22/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	78	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

ewt 10/6/10

16

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-11

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82585 Mod Ref No.: _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-018

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10052219.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/22/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	390	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	390	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	27	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	390	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

Rel 10/6/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-11

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82585 Mod. Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-018

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10052219.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/21/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/22/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	78	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

NW 10/6/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-12

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82585 Mod Ref No.: _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-019

Sample wt/vol: 30.12 (g/mL): g Lab File ID: 10052220.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/22/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	400	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	400	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	400	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

NW 10/6/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-12

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82585 Mod Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-019

Sample wt/vol: 30.12 (g/mL): g Lab File ID: 10052220.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/22/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	80	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

KW 10/6/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-19

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82585 Mod. Ref No : _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-020

Sample wt/vol: 30.03 (g/mL): g Lab File ID: 10052221.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/21/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/22/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	390	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	390	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	27	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	390	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

MW 10/6/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-19

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82585 Mod. Ref No.: _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-020

Sample wt/vol: 30.03 (g/mL):g Lab File ID: 10052221.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/21/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/22/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	78	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

NW 10/6/10

ID - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-35-18

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82582 Mod. Ref No : _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-021

Sample wt/vol: 30.25 (g/mL): g Lab File ID: 10052122.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/21/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	390	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	390	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	390	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

hw 10/6/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-18

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82582 Mod. Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-021

Sample wt/vol: 30.25 (g/mL): g Lab File ID: 10052122.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/21/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	79	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

KW 10/6/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
DUP-AOC-35-0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82582 Mod. Ref No.: _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-022

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10052128.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	220	U
208-96-8	Acenaphthylene	220	U
120-12-7	Anthracene	220	U
56-55-3	Benzo(a)anthracene	220	U
50-32-8	Benzo(a)pyrene	31	U
205-99-2	Benzo(b)fluoranthene	220	U
191-24-2	Benzo(g,h,i)perylene	220	U
207-08-9	Benzo(k)fluoranthene	220	U
111-44-4	bis(2-chloroethyl) ether	220	U
108-60-1	bis(2-chloroisopropyl) ether	220	U
117-81-7	bis(2-ethylhexyl) phthalate	220	U
84-74-2	Di-n-butyl phthalate	440	U
86-74-8	Carbazole	220	U
106-47-8	4-Chloroaniline	440	U
91-58-7	2-Chloronaphthalene	220	U
95-57-8	2-Chlorophenol	220	U
218-01-9	Chrysene	220	U
53-70-3	Dibenz(a,h)Anthracene	31	U
132-64-9	Dibenzofuran	220	U
95-50-1	1,2-Dichlorobenzene	220	U
541-73-1	1,3-Dichlorobenzene	220	U
106-46-7	1,4-Dichlorobenzene	220	U
91-94-1	3,3-Dichlorobenzidine	220	U
120-83-2	2,4-Dichlorophenol	220	U
84-66-2	Diethyl phthalate	220	U
105-67-9	2,4-Dimethylphenol	220	U
51-28-5	2,4-Dinitrophenol	440	U
121-14-2	2,4-Dinitrotoluene	220	U
606-20-2	2,6-Dinitrotoluene	220	U
206-44-0	Fluoranthene	220	U
86-73-7	Fluorene	220	U
118-74-1	Hexachlorobenzene	220	U
87-68-3	Hexachlorobutadiene	220	U
77-47-4	Hexachlorocyclopentadiene	220	U

MW 10/6/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
DUP-AOC-35-0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82582 Mod Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-022

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10052128.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	220	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	220	U
78-59-1	Isophorone	220	U
91-57-6	2-Methylnaphthalene	220	U
95-48-7	2-Methyl phenol	220	U
	3&4-Methylphenol	220	U
91-20-3	Naphthalene	220	U
98-95-3	Nitrobenzene	220	U
621-64-7	N-Nitrosodi-n-propyl amine	89	U
86-30-6	N-Nitrosodiphenylamine (1)	220	U
87-86-5	Pentachlorophenol	440	U
85-01-8	Phenanthrene	220	U
108-95-2	Phenol	220	U
129-00-0	Pyrene	220	U
103-23-1	Bis(2-ethylhexyl)adipate	220	U
120-82-1	1,2,4-Trichlorobenzene	220	U
88-06-2	2,4,6-Trichlorophenol	220	U
95-95-4	2,4,5-Trichlorophenol	220	U

(1) Cannot be separated from Diphenylamine

NW 10/6/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-45A-47

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82582 Mod. Ref No.: _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-023

Sample wt/vol: 30.04 (g/mL): g Lab File ID: 10052119.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 26 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	220	U
208-96-8	Acenaphthylene	220	U
120-12-7	Anthracene	220	U
56-55-3	Benzo(a)anthracene	220	U
50-32-8	Benzo(a)pyrene	31	U
205-99-2	Benzo(b)fluoranthene	220	U
191-24-2	Benzo(g,h,i)perylene	220	U
207-08-9	Benzo(k)fluoranthene	220	U
111-44-4	bis(2-chloroethyl) ether	220	U
108-60-1	bis(2-chloroisopropyl) ether	220	U
117-81-7	bis(2-ethylhexyl) phthalate	220	U
84-74-2	Di-n-butyl phthalate	450	U
86-74-8	Carbazole	220	U
106-47-8	4-Chloroaniline	450	U
91-58-7	2-Chloronaphthalene	220	U
95-57-8	2-Chlorophenol	220	U
218-01-9	Chrysene	220	U
53-70-3	Dibenz(a,h)Anthracene	31	U
132-64-9	Dibenzofuran	220	U
95-50-1	1,2-Dichlorobenzene	220	U
541-73-1	1,3-Dichlorobenzene	220	U
106-46-7	1,4-Dichlorobenzene	220	U
91-94-1	3,3-Dichlorobenzidine	220	U
120-83-2	2,4-Dichlorophenol	220	U
84-66-2	Diethyl phthalate	220	U
105-67-9	2,4-Dimethylphenol	220	U
51-28-5	2,4-Dinitrophenol	450	U
121-14-2	2,4-Dinitrotoluene	220	U
606-20-2	2,6-Dinitrotoluene	220	U
206-44-0	Fluoranthene	220	U
86-73-7	Fluorene	220	U
118-74-1	Hexachlorobenzene	220	U
87-68-3	Hexachlorobutadiene	220	U
77-47-4	Hexachlorocyclopentadiene	220	U

KW 10/6/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-45A-47

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82582 Mod. Ref No : _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-023

Sample wt/vol: 30.04 (g/mL):g Lab File ID: 10052119.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 26 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/21/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	220	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	220	U
78-59-1	Isophorone	220	U
91-57-6	2-Methylnaphthalene	220	U
95-48-7	2-Methyl phenol	220	U
	3&4-Methylphenol	220	U
91-20-3	Naphthalene	220	U
98-95-3	Nitrobenzene	220	U
621-64-7	N-Nitrosodi-n-propyl amine	90	U
86-30-6	N-Nitrosodiphenylamine (1)	220	U
87-86-5	Pentachlorophenol	450	U
85-01-8	Phenanthrene	220	U
108-95-2	Phenol	220	U
129-00-0	Pyrene	220	U
103-23-1	Bis(2-ethylhexyl)adipate	220	U
120-82-1	1,2,4-Trichlorobenzene	220	U
88-06-2	2,4,6-Trichlorophenol	220	U
95-95-4	2,4,5-Trichlorophenol	220	U

(1) Cannot be separated from Diphenylamine

RW 10/6/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-45A-44 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82582 Mod. Ref No : _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-024

Sample wt/vol: 30.14 (g/mL):g Lab File ID: 10052129.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	290	
50-32-8	Benzo(a)pyrene	290	
205-99-2	Benzo(b)fluoranthene	250	
191-24-2	Benzo(g,h,i)perylene	230	J
207-08-9	Benzo(k)fluoranthene	230	
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	390	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	390	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	300	
53-70-3	Dibenz(a,h)Anthracene	38	J
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	390	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	560	
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

NW 10/6/10

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1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-45A-44 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82582 Mod. Ref No.: _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-024

Sample wt/vol: 30.14 (g/mL): g Lab File ID: 10052129.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	J
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	78	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	400	
108-95-2	Phenol	200	U
129-00-0	Pyrene	540	
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

KW 10/6/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-1A (689)-1/0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82582 Mod. Ref No : _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-025

Sample wt/vol: 30.09 (g/mL):g Lab File ID: 10052124.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	380	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	380	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

MEW 10/6/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-1A (689)-1/0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82582 Mod. Ref No.: _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-025

Sample wt/vol: 30.09 (g/mL):g Lab File ID: 10052124.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	76	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

NW 10/6/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-45A-17

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82582 Mod Ref No.: _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-026

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10052130.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/21/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/22/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	210	
50-32-8	Benzo(a)pyrene	210	
205-99-2	Benzo(b)fluoranthene	220	
191-24-2	Benzo(g,h,i)perylene	150	J
207-08-9	Benzo(k)fluoranthene	170	J
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	410	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	410	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	240	
53-70-3	Dibenz(a,h)Anthracene	31	
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	410	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	400	
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

MW 10/6/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-45A-17

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82582 Mod. Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-026

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10052130.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/22/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	150	J
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	81	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	230	
108-95-2	Phenol	200	U
129-00-0	Pyrene	370	
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

MW 10/6/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-45A-69

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82582 Mod. Ref No : _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-027

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10052125.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/21/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
111-44-4	bis(2-chloroethyl) ether	210	U
108-60-1	bis(2-chloroisopropyl) ether	210	U
117-81-7	bis(2-ethylhexyl) phthalate	210	U
84-74-2	Di-n-butyl phthalate	420	U
86-74-8	Carbazole	210	U
106-47-8	4-Chloroaniline	420	U
91-58-7	2-Chloronaphthalene	210	U
95-57-8	2-Chlorophenol	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
132-64-9	Dibenzofuran	210	U
95-50-1	1,2-Dichlorobenzene	210	U
541-73-1	1,3-Dichlorobenzene	210	U
106-46-7	1,4-Dichlorobenzene	210	U
91-94-1	3,3-Dichlorobenzidine	210	U
120-83-2	2,4-Dichlorophenol	210	U
84-66-2	Diethyl phthalate	210	U
105-67-9	2,4-Dimethylphenol	210	U
51-28-5	2,4-Dinitrophenol	420	U
121-14-2	2,4-Dinitrotoluene	210	U
606-20-2	2,6-Dinitrotoluene	210	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
118-74-1	Hexachlorobenzene	210	U
87-68-3	Hexachlorobutadiene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U

NW 10/6/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-45A-69

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82582 Mod Ref No.: _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-027

Sample wt/vol: 30.08 (g/mL):g Lab File ID: 10052125.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
78-59-1	Isophorone	210	U
91-57-6	2-Methylnaphthalene	210	U
95-48-7	2-Methyl phenol	210	U
	3&4-Methylphenol	210	U
91-20-3	Naphthalene	210	U
98-95-3	Nitrobenzene	210	U
621-64-7	N-Nitrosodi-n-propyl amine	83	U
86-30-6	N-Nitrosodiphenylamine (1)	210	U
87-86-5	Pentachlorophenol	420	U
85-01-8	Phenanthrene	210	U
108-95-2	Phenol	210	U
129-00-0	Pyrene	210	U
103-23-1	Bis(2-ethylhexyl)adipate	210	U
120-82-1	1,2,4-Trichlorobenzene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U

(1) Cannot be separated from Diphenylamine

hw 10/6/10

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-45A-DUP-01

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82582 Mod. Ref No : _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-028

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10052120.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	30	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
111-44-4	bis(2-chloroethyl) ether	210	U
108-60-1	bis(2-chloroisopropyl) ether	210	U
117-81-7	bis(2-ethylhexyl) phthalate	210	U
84-74-2	Di-n-butyl phthalate	430	U
86-74-8	Carbazole	210	U
106-47-8	4-Chloroaniline	430	U
91-58-7	2-Chloronaphthalene	210	U
95-57-8	2-Chlorophenol	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	30	U
132-64-9	Dibenzofuran	210	U
95-50-1	1,2-Dichlorobenzene	210	U
541-73-1	1,3-Dichlorobenzene	210	U
106-46-7	1,4-Dichlorobenzene	210	U
91-94-1	3,3-Dichlorobenzidine	210	U
120-83-2	2,4-Dichlorophenol	210	U
84-66-2	Diethyl phthalate	210	U
105-67-9	2,4-Dimethylphenol	210	U
51-28-5	2,4-Dinitrophenol	430	U
121-14-2	2,4-Dinitrotoluene	210	U
606-20-2	2,6-Dinitrotoluene	210	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
118-74-1	Hexachlorobenzene	210	U
87-68-3	Hexachlorobutadiene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U

RW 10/6/10

SW8270C

26

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-45A-DUP-01

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82582 Mod. Ref No : _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-028

Sample wt/vol: 30.06 (g/mL):g Lab File ID: 10052120.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
78-59-1	Isophorone	210	U
91-57-6	2-Methylnaphthalene	210	U
95-48-7	2-Methyl phenol	210	U
	3&4-Methylphenol	210	U
91-20-3	Naphthalene	210	U
98-95-3	Nitrobenzene	210	U
621-64-7	N-Nitrosodi-n-propyl amine	85	U
86-30-6	N-Nitrosodiphenylamine (1)	210	U
87-86-5	Pentachlorophenol	430	U
85-01-8	Phenanthrene	210	U
108-95-2	Phenol	210	U
129-00-0	Pyrene	210	U
103-23-1	Bis(2-ethylhexyl)adipate	210	U
120-82-1	1,2,4-Trichlorobenzene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U

(1) Cannot be separated from Diphenylamine

MJ 10/6/10

SW8270C

ENVIRONMENTAL
Data Services, Inc.

PESTICIDES

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051811

Client: ARGO Systems, Glen Burnie, MD Date: October 5, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-45C-43	10051811-011	Soil
2	AOC-45C-23	10051811-013	Soil
3	AOC-45C-DUP-01	10051811-015	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days.

Instrument performance - All 4,4'-DDT/endrin % breakdown, resolution check mixture and PEMs were within criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD values.

Calibration Verification - The continuing calibrations exhibited acceptable %D values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS sample exhibited acceptable %R values.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-45C-27 ug/kg	AOC-45C-DUP-01 ug/kg	RPD	Qualifier
None	Not analyzed for Pesticides	ND	-	-

Compound Identification - Retention times were acceptable and no further action was taken.

Compound Quantitation - No discrepancies were identified.

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45c-43

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No.: 10051811

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051811-011

Sample wt/vol: 10.38 (g/mL): g Lab File ID: 10052143.D

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/18/2010

Extraction : (Type) SONC Date Extracted: 05/20/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82577

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

MW
10/6/10

SW8081B

2

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45c-23

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No _____ SDG No : 10051811

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051811-013

Sample wt/vol: 10.29 (g/mL): g Lab File ID: 10052139.D

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/18/2010

Extraction : (Type) SONC Date Extracted: 05/20/2010

Concentrated Extract Volume: 10 (μ L) Date Analyzed: 05/21/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Dilution Factor: 5.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82577

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	120	U
72-55-9	4,4-DDE	120	U
50-29-3	4,4-DDT	120	U
309-00-2	Aldrin	120	U
319-84-6	alpha-BHC	120	U
5103-71-9	alpha-Chlordane	120	U
319-85-7	beta-BHC	120	U
319-86-8	delta-BHC	120	U
60-57-1	Dieldrin	120	U
959-98-8	Endosulfan I	120	U
33213-65-9	Endosulfan II	120	U
1031-07-8	Endosulfan sulfate	120	U
72-20-8	Endrin	120	U
7421-93-4	Endrin aldehyde	120	U
53494-70-5	Endrin ketone	120	U
58-89-9	gamma-BHC (Lindane)	120	U
5103-74-2	gamma-Chlordane	120	U
76-44-8	Heptachlor	120	U
1024-57-3	Heptachlor epoxide	120	U
72-43-5	Methoxychlor	120	U
8001-35-2	Toxaphene	1,200	U

MW
10/6/10

SW8081B

3

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45c-DUP-01

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No.: 10051811

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051811-015

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10052141.D

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/18/2010

Extraction : (Type) SONC Date Extracted: 05/20/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 5.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82577

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	110	U
72-55-9	4,4-DDE	110	U
50-29-3	4,4-DDT	110	U
309-00-2	Aldrin	110	U
319-84-6	alpha-BHC	110	U
5103-71-9	alpha-Chlordane	110	U
319-85-7	beta-BHC	110	U
319-86-8	delta-BHC	110	U
60-57-1	Dieldrin	110	U
959-98-8	Endosulfan I	110	U
33213-65-9	Endosulfan II	110	U
1031-07-8	Endosulfan sulfate	110	U
72-20-8	Endrin	110	U
7421-93-4	Endrin aldehyde	110	U
53494-70-5	Endrin ketone	110	U
58-89-9	gamma-BHC (Lindane)	110	U
5103-74-2	gamma-Chlordane	110	U
76-44-8	Heptachlor	110	U
1024-57-3	Heptachlor epoxide	110	U
72-43-5	Methoxychlor	110	U
8001-35-2	Toxaphene	1,100	U

NW
10/6/10

SW8081B

ENVIRONMENTAL
Data Services, Inc.

PCBs
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051811

Client: ARGO Systems, Glen Burnie, MD Date: October 5, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: [redacted] (b) (4)

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-45C-43	10051811-011	Soil
2	AOC-45C-27	10051811-012	Soil
3	AOC-45C-23	10051811-013	Soil
4	AOC-45C-3	10051811-014	Soil
5	AOC-45C-DUP-01	10051811-015	Soil
6	AOC-45A-47	10051811-023	Soil
7	AOC-45A-44	10051811-024	Soil
7MS	AOC-45A-44MS	10051811-024MS	Soil
7MSD	AOC-45A-44MSD	10051811-024MSD	Soil
8	AOC-1A(689)-1/0-2	10051811-025	Soil
9	AOC-45A-17	10051811-026	Soil
10	AOC-45A-69	10051811-027	Soil
11	AOC-45A-DUP-01	10051811-028	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days.

Initial Calibration - The initial calibrations exhibited acceptable %RSD values.

Calibration Verification - The continuing calibrations exhibited acceptable %D values.

Surrogates - All samples exhibited acceptable surrogate recoveries except the following.

Sample ID	Surrogate	%R	Qualifier
3	DCB1	129%	None- ND
9	DCB1	133%	None- ND

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-45C-27 mg/kg	AOC-45C-DUP-01 mg/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-45A-47 mg/kg	AOC-45A-DUP-01 mg/kg	RPD	Qualifier
None	ND	ND	-	-

Compound Identification - Retention times were acceptable and no further action was taken.

Compound Quantitation - No discrepancies were identified.

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45c-43

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No. _____ SDG No : 10051811

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051811-011

Sample wt/vol: 10.26 (g/mL): g Lab File ID: 10052416.D

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/18/2010

Extraction : (Type) SONC Date Extracted: 05/21/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82619

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

10/6/10

SW8082

2

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45c-27

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No : 10051811

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051811-012

Sample wt/vol: 10.19 (g/mL): g Lab File ID: 10052418.D

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/18/2010

Extraction : (Type) SONC Date Extracted: 05/21/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82619

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

MW
10/6/10

SW8082

3

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45c-23

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10051811

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051811-013

Sample wt/vol: 10.25 (g/mL): g Lab File ID: 10052420.D

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/18/2010

Extraction : (Type) SONC Date Extracted: 05/21/2010

Concentrated Extract Volume: 10 (μ L) Date Analyzed: 05/24/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82619

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

nw
10/6/10

4

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45c-3

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051811

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051811-014

Sample wt/vol: 10.41 (g/mL): g Lab File ID: 10052422.D

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/18/2010

Extraction : (Type) SONC Date Extracted: 05/21/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82619

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

NW
10/6/10

SW8082

5

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45c-DUP-01

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No :10051811

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051811-015

Sample wt/vol: 10.38 (g/mL): g Lab File ID: 10052426.D

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/18/2010

Extraction : (Type) SONC Date Extracted: 05/21/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82619

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

KEW
10/6/10

SW8082

6

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45a-47

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No.: 10051811

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051811-023

Sample wt/vol: 10.34 (g/mL): g Lab File ID: 10052428.D

% Moisture: 26 Decanted: (Y/N) N Date Received: 05/18/2010

Extraction : (Type) SONC Date Extracted: 05/21/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82619

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

hw
10/6/10

7

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45a-44 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No : 10051811

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051811-024

Sample wt/vol: 10.18 (g/mL): g Lab File ID: 10052414.D

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/18/2010

Extraction : (Type) SONC Date Extracted: 05/21/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82619

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

NW
10/6/10

8

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-1a (689)-1/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10051811

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051811-025

Sample wt/vol: 10.24 (g/mL): g Lab File ID: 10052430.D

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/18/2010

Extraction : (Type) SONC Date Extracted: 05/21/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82619

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

KW
10/6/10

SW8082

9

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45a-17

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No. _____ SDG No.: 10051811

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051811-026

Sample wt/vol: 10.34 (g/mL): g Lab File ID: 10052432.D

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/18/2010

Extraction : (Type) SONC Date Extracted: 05/21/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82619

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

RW
10/6/10

10

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45a-69

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No _____ SDG No.: 10051811

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051811-027

Sample wt/vol: 10.33 (g/mL): g Lab File ID: 10052434.D

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/18/2010

Extraction : (Type) SONC Date Extracted: 05/21/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82619

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

ne
10/6/10

SW8082

11

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-45a-Dup-01

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No.: 10051811

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051811-028

Sample wt/vol: 10.28 (g/mL): g Lab File ID: 10052436.D

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/18/2010

Extraction : (Type) SONC Date Extracted: 05/21/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82619

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0 1	U
11096-82-5	PCB-1260	0.1	U

Rev
10/6/10

SW8082

ENVIRONMENTAL
Data Services, Inc.

GASOLINE RANGE ORGANICS (GRO)
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051811

Client: ARGO Systems, Glen Burnie, MD Date: October 5, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-35-27	10051811-003	Soil
2	AOC-35-26	10051811-004	Soil
3	AOC-35-24	10051811-005	Soil
4	AOC-35-25	10051811-006	Soil
5	AOC-35-21	10051811-007	Soil
6	AOC-35-23	10051811-008	Soil
7	AOC-35-22	10051811-009	Soil
8	AOC-35-20	10051811-010	Soil
8MS	AOC-35-20MS	10051811-010MS	Soil
8MSD	AOC-35-20MSD	10051811-010MSD	Soil
9	AOC-35-17	10051811-016	Soil
10	AOC-35-16	10051811-017	Soil
11	AOC-35-11	10051811-018	Soil
12	AOC-35-12	10051811-019	Soil
13	AOC-35-19	10051811-020	Soil
14	AOC-35-18	10051811-021	Soil
15	DUP-AOC-35-0-2	10051811-022	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for soil samples.

Initial Calibration - The initial calibrations exhibited acceptable %RSD values.

Calibration Verification - The continuing calibrations exhibited acceptable %D values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS sample(s) exhibited acceptable %R values.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-35-20 ug/kg	DUP-AOC-35-0-2 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound Identification - Retention times were acceptable and no further action was taken.

Compound Quantitation - No discrepancies were identified.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-27

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82494 Mod Ref. No.: _____ SDG No : 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-003

Sample wt/vol 5.83 (g/mL) g Lab File ID: 10051934

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 16 Date Analyzed: 05/20/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	100	U

lcw
10/6/10

2

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-26

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82494 Mod Ref No.: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-004

Sample wt/vol 5.31 (g/mL) g Lab File ID: 10051935

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 17 Date Analyzed: 05/20/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	110	U

NW
10/6/10

3

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-24

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82494 Mod. Ref. No.: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-005

Sample wt/vol 6.55 (g/mL) g Lab File ID: 10051936

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 16 Date Analyzed: 05/20/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	91	U

NW
10/6/10

4

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-25

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82494 Mod. Ref. No: _____ SDG No: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-006

Sample wt/vol 5.17 (g/mL) g Lab File ID: 10051937

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec 17 Date Analyzed: 05/20/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	120	U

lw
10/6/10

5

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-21

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82494 Mod. Ref. No.: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-007

Sample wt/vol 5.92 (g/mL) g Lab File ID: 10051938

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec 16 Date Analyzed: 05/20/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	100	U

mw
10/6/10

6

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-23

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82494 Mod. Ref. No.: _____ SDG No: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-008

Sample wt/vol 6.08 (g/mL) g Lab File ID: 10051939

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 16 Date Analyzed: 05/20/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	98	U

NW
10/6/10

7

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-22

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82494 Mod Ref. No.: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-009

Sample wt/vol 5.75 (g/mL) g Lab File ID: 10051940

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 17 Date Analyzed: 05/20/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	100	U

NW
10/6/10

8

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-20 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82494 Mod Ref. No.: _____ SDG No. : 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-010

Sample wt/vol 4.19 (g/mL) g Lab File ID: 10051941

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 24 Date Analyzed: 05/20/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	160	U

WW
10/6/10

9

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-17

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82494 Mod. Ref. No.: _____ SDG No. : 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-016

Sample wt/vol 6.82 (g/mL) g Lab File ID: 10051942

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec 22 Date Analyzed: 05/20/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	94	U

NW
10/6/10

10

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-16

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82517 Mod Ref No.: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-017

Sample wt/vol 5.42 (g/mL) g Lab File ID: 10051957

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec 15 Date Analyzed: 05/20/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	110	U

nw
10/6/10

11

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-11

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82517 Mod. Ref. No : _____ SDG No. : 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-018

Sample wt/vol 5.95 (g/mL) g Lab File ID: 10051958

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec 15 Date Analyzed: 05/20/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	99	U

NW
10/6/10

SW8021B_SW8015

12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-12

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82517 Mod. Ref. No.: _____ SDG No : 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-019

Sample wt/vol 5.60 (g/mL) g Lab File ID: 10051959

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 17 Date Analyzed: 05/20/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	110	U

MW
10/6/10

13

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-19

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82517 Mod Ref. No.: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-020

Sample wt/vol 5.38 (g/mL) g Lab File ID: 10051960

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 15 Date Analyzed: 05/20/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	110	U

NW 10/6/10

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-18

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82517 Mod Ref No.: _____ SDG No.: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-021

Sample wt/vol 5.75 (g/mL) g Lab File ID: 10051961

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec 16 Date Analyzed: 05/20/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	100	U

NW
10/6/10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-35-0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82517 Mod Ref No: _____ SDG No: 10051811

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051811-022

Sample wt/vol 4.20 (g/mL) g Lab File ID: 10051962

Level: (TRACE/LOW/MED) LOW Date Received: 05/18/2010

% Moisture: not dec. 25 Date Analyzed: 05/20/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	160	U

NW
10/6/10

ENVIRONMENTAL
Data Services, Inc.

DIESEL RANGE ORGANICS (DRO)
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051811

Client: ARGO Systems, Glen Burnie, MD Date: October 5, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-35-27	10051811-003	Soil
2	AOC-35-26	10051811-004	Soil
3	AOC-35-24	10051811-005	Soil
4	AOC-35-25	10051811-006	Soil
5	AOC-35-21	10051811-007	Soil
6	AOC-35-23	10051811-008	Soil
7	AOC-35-22	10051811-009	Soil
8	AOC-35-20	10051811-010	Soil
8MS	AOC-35-20MS	10051811-010MS	Soil
8MSD	AOC-35-20MSD	10051811-010MSD	Soil
9	AOC-35-17	10051811-016	Soil
10	AOC-35-16	10051811-017	Soil
11	AOC-35-11	10051811-018	Soil
12	AOC-35-12	10051811-019	Soil
13	AOC-35-19	10051811-020	Soil
14	AOC-35-18	10051811-021	Soil
15	DUP-AOC-35-0-2	10051811-022	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days.

Initial Calibration - The initial calibrations exhibited acceptable %RSD values.

Calibration Verification - The continuing calibrations exhibited acceptable %D values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS sample(s) exhibited acceptable %R values.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-35-20 mg/kg	DUP-AOC-35-0-2 mg/kg	RPD	Qualifier
TPH-DRO	13 U	17	NC	None

Compound Identification - Retention times were acceptable and no further action was taken.

Compound Quantitation - No discrepancies were identified.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO

AOC-35-27

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82534 Mod Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-003

Sample wt/vol: 30.27 (g/mL):g Lab File ID: 10052144.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	12	U

DW 10/6/10

2

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-35-26

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82534 Mod. Ref No : _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-004

Sample wt/vol: 30.19 (g/mL):g Lab File ID: 10052145.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	12	J

MM 10/6/10

(1) Cannot be separated from Diphenylamine

SW8015DRO

3

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-24

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82534 Mod Ref No : _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-005

Sample wt/vol: 30.36 (g/mL):g Lab File ID: 10052146.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	12	U

MW
10/6/10

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-35-25

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82534 Mod Ref No.: _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-006

Sample wt/vol: 30.14 (g/mL):g Lab File ID: 10052147.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/21/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	16	

MW 10/6/10

(1) Cannot be separated from Diphenylamine

5

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-35-21

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82534 Mod. Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-007

Sample wt/vol: 30.73 (g/mL):g Lab File ID: 10052148.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/21/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	12	U

MW
10/6/10

6

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-23

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82534 Mod Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-008

Sample wt/vol: 30.31 (g/mL): g Lab File ID: 10052151.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/21/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	6.2	J

lw
10/6/10

(1) Cannot be separated from Diphenylamine

7

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-22

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82534 Mod Ref No.: _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-009

Sample wt/vol: 30.22 (g/mL):g Lab File ID: 10052139.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	12	U

lee
10/6/10

8

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-35-20 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82534 Mod. Ref No : _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-010

Sample wt/vol: 30.76 (g/mL):g Lab File ID: 10052138.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	13	U

kw
10/6/10

(1) Cannot be separated from Diphenylamine

SW8015DRO

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-17

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82534 Mod. Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-016

Sample wt/vol: 30.77 (g/mL):g Lab File ID: 10052143.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	36	

NW
10/6/10

10

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-35-16

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82534 Mod. Ref No : _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-017

Sample wt/vol: 30.38 (g/mL):g Lab File ID: 10052153.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	12	U

LW
10/6/10

(1) Cannot be separated from Diphenylamine

SW8015DRO

11

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-11

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82534 Mod. Ref No.: _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-018

Sample wt/vol: 30.35 (g/mL):g Lab File ID: 10052152.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	19	

lw
10/6/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-12

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82534 Mod Ref No : _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-019

Sample wt/vol: 30.35 (g/mL):g Lab File ID: 10052154.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	23	

lw 10/6/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-19

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82534 Mod. Ref No : _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-020

Sample wt/vol: 30.07 (g/mL):g Lab File ID: 10052155.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/21/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	21	

NW
10/6/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-18

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82534 Mod. Ref No.: _____ SDG No.: 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-021

Sample wt/vol: 30.24 (g/mL):g Lab File ID: 10052140.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	12	U

NW
10/6/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-AOC-35-0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82534 Mod. Ref No.: _____ SDG No : 10051811

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051811-022

Sample wt/vol: 30.2 (g/mL):g Lab File ID: 10052157.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 05/18/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	17	

MJ
10/6/10

ENVIRONMENTAL
Data Services, Inc.

VOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051707

Client: ARGO Systems, Glen Burnie, MD Date: October 5, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-35-9	10051707-001	Soil
2	AOC-35-8	10051707-002	Soil
3	AOC-35-7	10051707-003	Soil
4	AOC-35-6	10051707-004	Soil
5	AOC-35-1	10051707-005	Soil
6	AOC-35-3	10051707-006	Soil
7	AOC-35-2	10051707-007	Soil
8	AOC-35-5	10051707-008	Soil
9	AOC-35-4	10051707-009	Soil
10	AOC-35-13	10051707-010	Soil
11	AOC-35-14	10051707-011	Soil
12	AOC-35-10	10051707-012	Soil
13	AOC-35-15	10051707-013	Soil
14	DUP AOC-35-01A	10051707-015	Soil
15	AOC-14-UST-2/8-10	10051707-016	Soil
16	AOC-14-UST-1/8-10	10051707-017	Soil
17	AOC-14-2/2-4	10051707-018	Soil
18	AOC-14-1/0-2	10051707-019	Soil
19	AOC-14-1/2-4	10051707-020	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for soil samples.

GC/MS Tuning - All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values except the following.

ICAL Date	Compound	%RSD/RRF	Qualifier	Affected Samples
05/07/10	4-Methyl-2-pentanone	0.044 RRF	L/R	All samples

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
05/18/10	Acetone	0.049 RRF	L/R	1-4
	2-Butanone	0.043 RRF	L/R	1-4
	4-Methyl-2-pentanone	0.040 RRF	None	See ICAL
05/19/10	Acetone	0.048 RRF	L/R	5-9, 11-19
	2-Butanone	26.9%/0.038 RRF	L/R	5-9, 11-19
	4-Methyl-2-pentanone	0.036 RRF	None	See ICAL
05/20/10	2-Butanone	0.040 RRF	L/R	10
	4-Methyl-2-pentanone	0.038 RRF	None	See ICAL

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Trip, Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-35-13 ug/kg	DUP AOC-35-01A ug/kg	RPD	Qualifier
Acetone	52	64	21%	None

Tentatively Identified Compounds (TICs) - TICs were not reported with this data package.

Compound Quantitation - No discrepancies were identified.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-9

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82448 Mod Ref No.: _____ SDG No: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-001

Sample wt/vol 4.23 (g/mL) g Lab File ID: 10051817

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec 27 Date Analyzed: 05/18/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	8	U	
75-01-4	Vinyl Chloride	8	U	
74-83-9	Bromomethane	8	U	
75-00-3	Chloroethane	8	U	
67-64-1	Acetone	30	~~Y~~	L
75-35-4	1,1-Dichloroethene	8	U	
75-09-2	Methylene Chloride	8	U	
156-60-5	trans-1,2-Dichloroethene	8	U	
1634-04-4	Methyl-t-butyl ether	8	U	
75-34-3	1,1-Dichloroethane	8	U	
78-93-3	2-Butanone	32	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	8	U	
67-66-3	Chloroform	8	U	
71-55-6	1,1,1-Trichloroethane	8	U	
107-06-2	1,2-Dichloroethane	8	U	
56-23-5	Carbon Tetrachloride	8	U	
71-43-2	Benzene	8	U	
78-87-5	1,2-Dichloropropane	8	U	
75-15-0	Carbon Disulfide	16	U	
79-01-6	Trichloroethene	8	U	
75-27-4	Bromodichloromethane	8	U	
10061-01-5	cis-1,3-Dichloropropene	8	U	
108-10-1	4-Methyl-2-Pentanone	32	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	8	U	
79-00-5	1,1,2-Trichloroethane	8	U	
108-88-3	Toluene	8	U	

dew 10/5/10

SW8260B

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-9

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82448 Mod. Ref. No: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-001

Sample wt/vol 4.23 (g/mL) g Lab File ID: 10051817

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 27 Date Analyzed: 05/18/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	8	U
124-48-1	Dibromochloromethane	8	U
75-25-2	Bromoform	8	U
127-18-4	Tetrachloroethene	8	U
108-90-7	Chlorobenzene	8	U
100-41-4	Ethylbenzene	8	U
108-38-3	m,p-Xylenes	16	U
100-42-5	Styrene	8	U
79-34-5	1,1,2,2-Tetrachloroethane	8	U
95-47-6	o-Xylene	8	U
98-82-8	Isopropylbenzene	8	U
103-65-1	n-Propylbenzene	8	U
108-67-8	1,3,5-Trimethylbenzene	8	U
95-63-6	1,2,4-Trimethylbenzene	8	U
104-51-8	n-Butylbenzene	8	U
96-12-8	1,2-Dibromo-3-Chloropropane	65	U

WW 10/5/10

SW8260B

2

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-8

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82448 Mod Ref No: _____ SDG No: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-002

Sample wt/vol 5.39 (g/mL) g Lab File ID: 10051818

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 14 Date Analyzed: 05/18/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl Chloride	5	U	
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	5	U	
67-64-1	Acetone	19	~~U~~	L
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene Chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl-t-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
78-93-3	2-Butanone	22	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
107-06-2	1,2-Dichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
71-43-2	Benzene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-15-0	Carbon Disulfide	11	U	
79-01-6	Trichloroethene	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-Pentanone	22	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
108-88-3	Toluene	5	U	

NW 10/5/10

SW8260B

2

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-8

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82448 Mod. Ref No : _____ SDG No. : 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-002

Sample wt/vol 5.39 (g/mL) g Lab File ID: 10051818

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 14 Date Analyzed: 05/18/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	11	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	43	U

NW 10/5/10

SW8260B

3

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-7

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82448 Mod. Ref No: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-003

Sample wt/vol 5.37 (g/mL) g Lab File ID: 10051819

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 16 Date Analyzed: 05/18/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	6	U	
75-01-4	Vinyl Chloride	6	U	
74-83-9	Bromomethane	6	U	
75-00-3	Chloroethane	6	U	
67-64-1	Acetone	91		L
75-35-4	1,1-Dichloroethene	6	U	
75-09-2	Methylene Chloride	6	U	
156-60-5	trans-1,2-Dichloroethene	6	U	
1634-04-4	Methyl-t-butyl ether	6	U	
75-34-3	1,1-Dichloroethane	6	U	
78-93-3	2-Butanone	22	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	6	U	
67-66-3	Chloroform	6	U	
71-55-6	1,1,1-Trichloroethane	6	U	
107-06-2	1,2-Dichloroethane	6	U	
56-23-5	Carbon Tetrachloride	6	U	
71-43-2	Benzene	6	U	
78-87-5	1,2-Dichloropropane	6	U	
75-15-0	Carbon Disulfide	11	U	
79-01-6	Trichloroethene	6	U	
75-27-4	Bromodichloromethane	6	U	
10061-01-5	cis-1,3-Dichloropropene	6	U	
108-10-1	4-Methyl-2-Pentanone	22	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	6	U	
79-00-5	1,1,2-Trichloroethane	6	U	
108-88-3	Toluene	6	U	

MW 10/5/10

SW8260B

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-7

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82448 Mod. Ref. No.: _____ SDG No: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-003

Sample wt/vol 5.37 (g/mL) g Lab File ID: 10051819

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec 16 Date Analyzed: 05/18/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	11	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	44	U

MW 10/5/10

SW8260B

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-6

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82448 Mod. Ref No.: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-004

Sample wt/vol 6.81 (g/mL) g Lab File ID: 10051820

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 11 Date Analyzed: 05/18/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	4	U	
75-01-4	Vinyl Chloride	4	U	
74-83-9	Bromomethane	4	U	
75-00-3	Chloroethane	4	U	
67-64-1	Acetone	44		L
75-35-4	1,1-Dichloroethene	4	U	
75-09-2	Methylene Chloride	4	U	
156-60-5	trans-1,2-Dichloroethene	4	U	
1634-04-4	Methyl-t-butyl ether	4	U	
75-34-3	1,1-Dichloroethane	4	U	
78-93-3	2-Butanone	17	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	4	U	
67-66-3	Chloroform	4	U	
71-55-6	1,1,1-Trichloroethane	4	U	
107-06-2	1,2-Dichloroethane	4	U	
56-23-5	Carbon Tetrachloride	4	U	
71-43-2	Benzene	4	U	
78-87-5	1,2-Dichloropropane	4	U	
75-15-0	Carbon Disulfide	8	U	
79-01-6	Trichloroethene	4	U	
75-27-4	Bromodichloromethane	4	U	
10061-01-5	cis-1,3-Dichloropropene	4	U	
108-10-1	4-Methyl-2-Pentanone	17	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	4	U	
79-00-5	1,1,2-Trichloroethane	4	U	
108-88-3	Toluene	4	U	

NW 10/5/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-6

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82448 Mod. Ref. No : _____ SDG No. : 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-004

Sample wt/vol 6.81 (g/mL) g Lab File ID: 10051820

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 11 Date Analyzed: 05/18/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	4	U
124-48-1	Dibromochloromethane	4	U
75-25-2	Bromoform	4	U
127-18-4	Tetrachloroethene	4	U
108-90-7	Chlorobenzene	4	U
100-41-4	Ethylbenzene	4	U
108-38-3	m,p-Xylenes	8	U
100-42-5	Styrene	4	U
79-34-5	1,1,2,2-Tetrachloroethane	4	U
95-47-6	o-Xylene	4	U
98-82-8	Isopropylbenzene	4	U
103-65-1	n-Propylbenzene	4	U
108-67-8	1,3,5-Trimethylbenzene	4	U
95-63-6	1,2,4-Trimethylbenzene	4	U
104-51-8	n-Butylbenzene	4	U
96-12-8	1,2-Dibromo-3-Chloropropane	33	U

MW 10/5/10

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1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82489 Mod Ref. No.: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-005

Sample wt/vol 5.91 (g/mL) g Lab File ID: 10051908

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 14 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl Chloride	5	U	
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	5	U	
67-64-1	Acetone	20	~~U~~	R
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene Chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl-t-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
78-93-3	2-Butanone	20	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
107-06-2	1,2-Dichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
71-43-2	Benzene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-15-0	Carbon Disulfide	10	U	
79-01-6	Trichloroethene	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-Pentanone	20	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
108-88-3	Toluene	5	U	

NW 10/5/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82489 Mod. Ref. No.: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-005

Sample wt/vol 5.91 (g/mL) g Lab File ID: 10051908

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 14 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	10	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	39	U

Rw 10/5/10

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-3

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82489 Mod Ref No.: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-006

Sample wt/vol 5.73 (g/mL) g Lab File ID: 10051909

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 18 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (μ L) Soil Aliquot Volume: _____ (μ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl Chloride	5	U	
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	5	U	
67-64-1	Acetone	16	~~J~~	L
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene Chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl-t-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
78-93-3	2-Butanone	21	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
107-06-2	1,2-Dichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
71-43-2	Benzene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-15-0	Carbon Disulfide	11	U	
79-01-6	Trichloroethene	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-Pentanone	21	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
108-88-3	Toluene	5	U	

NW 10/5/10

SW8260B

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-3

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82489 Mod. Ref. No : _____ SDG No. : 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-006

Sample wt/vol 5.73 (g/mL) g Lab File ID: 10051909

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec 18 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	11	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	43	U

kw 10/5/10

SW8260B

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82489 Mod. Ref No : _____ SDG No : 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-007

Sample wt/vol 4.76 (g/mL) g Lab File ID: 10051910

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 16 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	6	U	
75-01-4	Vinyl Chloride	6	U	
74-83-9	Bromomethane	6	U	
75-00-3	Chloroethane	6	U	
67-64-1	Acetone	14	~~U~~	L
75-35-4	1,1-Dichloroethene	6	U	
75-09-2	Methylene Chloride	6	U	
156-60-5	trans-1,2-Dichloroethene	6	U	
1634-04-4	Methyl-t-butyl ether	6	U	
75-34-3	1,1-Dichloroethane	6	U	
78-93-3	2-Butanone	25	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	6	U	
67-66-3	Chloroform	6	U	
71-55-6	1,1,1-Trichloroethane	6	U	
107-06-2	1,2-Dichloroethane	6	U	
56-23-5	Carbon Tetrachloride	6	U	
71-43-2	Benzene	6	U	
78-87-5	1,2-Dichloropropane	6	U	
75-15-0	Carbon Disulfide	13	U	
79-01-6	Trichloroethene	6	U	
75-27-4	Bromodichloromethane	6	U	
10061-01-5	cis-1,3-Dichloropropene	6	U	
108-10-1	4-Methyl-2-Pentanone	25	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	6	U	
79-00-5	1,1,2-Trichloroethane	6	U	
108-88-3	Toluene	6	U	

Lee 10/5/10

SW8260B

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No. : 82489 Mod Ref No.: _____ SDG No : 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-007

Sample wt/vol 4.76 (g/mL) g Lab File ID: 10051910

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 16 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	13	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	50	U

lw 10/5/10

SW8260B

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1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-5

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82489 Mod. Ref. No: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-008

Sample wt/vol 6.09 (g/mL) g Lab File ID: 10051911

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 15 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl Chloride	5	U	
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	5	U	
67-64-1	Acetone	25		L
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene Chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl-t-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
78-93-3	2-Butanone	19	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
107-06-2	1,2-Dichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
71-43-2	Benzene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-15-0	Carbon Disulfide	10	U	
79-01-6	Trichloroethene	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-Pentanone	19	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
108-88-3	Toluene	5	U	

lw 10/5/10

SW8260B

8

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-5

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82489 Mod. Ref. No : _____ SDG No : 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-008

Sample wt/vol 6.09 (g/mL) g Lab File ID: 10051911

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 15 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	10	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	39	U

VW 10/5/10

SW8260B

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1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82489 Mod. Ref. No.: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-009

Sample wt/vol 6.08 (g/mL) g Lab File ID: 10051912

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec 19 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl Chloride	5	U	
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	5	U	
67-64-1	Acetone	59		L
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene Chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl-t-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
78-93-3	2-Butanone	20	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
107-06-2	1,2-Dichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
71-43-2	Benzene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-15-0	Carbon Disulfide	10	U	
79-01-6	Trichloroethene	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-Pentanone	20	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
108-88-3	Toluene	5	U	

LEW 10/5/10

SW8260B

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82489 Mod. Ref. No : _____ SDG No : 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-009

Sample wt/vol 6.08 (g/mL) g Lab File ID: 10051912

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 19 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	10	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	41	U

CW 10/5/10

SW8260B

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-13

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82503 Mod Ref. No.: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-010

Sample wt/vol 5.92 (g/mL) g Lab File ID: 10052008

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 16 Date Analyzed: 05/20/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl Chloride	5	U	
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	5	U	
67-64-1	Acetone	52		
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene Chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl-t-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
78-93-3	2-Butanone	20	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
107-06-2	1,2-Dichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
71-43-2	Benzene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-15-0	Carbon Disulfide	10	U	
79-01-6	Trichloroethene	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-Pentanone	20	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
108-88-3	Toluene	5	U	

MW 10/5/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-13

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82503 Mod. Ref. No.: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-010

Sample wt/vol 5.92 (g/mL) g Lab File ID: 10052008

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 16 Date Analyzed: 05/20/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	10	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	40	U

KW 10/5/10

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-14

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82489 Mod Ref. No.: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-011

Sample wt/vol 5.57 (g/mL) g Lab File ID: 10051914

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 17 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl Chloride	5	U	
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	5	U	
67-64-1	Acetone	20	~~J~~	L
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene Chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl-t-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
78-93-3	2-Butanone	22	~~J~~	R
156-59-2	cis-1,2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
107-06-2	1,2-Dichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
71-43-2	Benzene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-15-0	Carbon Disulfide	11	U	
79-01-6	Trichloroethene	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-Pentanone	22	~~J~~	R
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
108-88-3	Toluene	5	U	

MW 10/5/10

SW8260B

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-14

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82489 Mod. Ref. No.: _____ SDG No. : 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-011

Sample wt/vol 5.57 (g/mL) g Lab File ID: 10051914

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec 17 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	11	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	43	U

NW 10/5/10

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1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82489 Mod Ref. No.: _____ SDG No. : 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-012

Sample wt/vol 5.04 (g/mL) g Lab File ID: 10051915

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 21 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	6	U	
75-01-4	Vinyl Chloride	6	U	
74-83-9	Bromomethane	6	U	
75-00-3	Chloroethane	6	U	
67-64-1	Acetone	66		L
75-35-4	1,1-Dichloroethene	6	U	
75-09-2	Methylene Chloride	6	U	
156-60-5	trans-1,2-Dichloroethene	6	U	
1634-04-4	Methyl-t-butyl ether	6	U	
75-34-3	1,1-Dichloroethane	6	U	
78-93-3	2-Butanone	25	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	6	U	
67-66-3	Chloroform	6	U	
71-55-6	1,1,1-Trichloroethane	6	U	
107-06-2	1,2-Dichloroethane	6	U	
56-23-5	Carbon Tetrachloride	6	U	
71-43-2	Benzene	6	U	
78-87-5	1,2-Dichloropropane	6	U	
75-15-0	Carbon Disulfide	13	U	
79-01-6	Trichloroethene	6	U	
75-27-4	Bromodichloromethane	6	U	
10061-01-5	cis-1,3-Dichloropropene	6	U	
108-10-1	4-Methyl-2-Pentanone	25	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	6	U	
79-00-5	1,1,2-Trichloroethane	6	U	
108-88-3	Toluene	6	U	

lwd 10/5/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82489 Mod. Ref. No : _____ SDG No : 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-012

Sample wt/vol 5.04 (g/mL) g Lab File ID: 10051915

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec 21 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	13	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	50	U

lw 10/5/10

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1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-15

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82489 Mod. Ref. No.: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-013

Sample wt/vol 4.53 (g/mL) g Lab File ID: 10051916

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec 17 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (μ L) Soil Aliquot Volume: _____ (μ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	7	U	
75-01-4	Vinyl Chloride	7	U	
74-83-9	Bromomethane	7	U	
75-00-3	Chloroethane	7	U	
67-64-1	Acetone	25	~~U~~	L
75-35-4	1,1-Dichloroethene	7	U	
75-09-2	Methylene Chloride	7	U	
156-60-5	trans-1,2-Dichloroethene	7	U	
1634-04-4	Methyl-t-butyl ether	7	U	
75-34-3	1,1-Dichloroethane	7	U	
78-93-3	2-Butanone	27	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	7	U	
67-66-3	Chloroform	7	U	
71-55-6	1,1,1-Trichloroethane	7	U	
107-06-2	1,2-Dichloroethane	7	U	
56-23-5	Carbon Tetrachloride	7	U	
71-43-2	Benzene	7	U	
78-87-5	1,2-Dichloropropane	7	U	
75-15-0	Carbon Disulfide	13	U	
79-01-6	Trichloroethene	7	U	
75-27-4	Bromodichloromethane	7	U	
10061-01-5	cis-1,3-Dichloropropene	7	U	
108-10-1	4-Methyl-2-Pentanone	27	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	7	U	
79-00-5	1,1,2-Trichloroethane	7	U	
108-88-3	Toluene	7	U	

SW8260B

MW 10/5/10

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-15

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82489 Mod. Ref. No.: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-013

Sample wt/vol 4.53 (g/mL) g Lab File ID: 10051916

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec 17 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	7	U
124-48-1	Dibromochloromethane	7	U
75-25-2	Bromoform	7	U
127-18-4	Tetrachloroethene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
108-38-3	m,p-Xylenes	13	U
100-42-5	Styrene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U
95-47-6	o-Xylene	7	U
98-82-8	Isopropylbenzene	7	U
103-65-1	n-Propylbenzene	7	U
108-67-8	1,3,5-Trimethylbenzene	7	U
95-63-6	1,2,4-Trimethylbenzene	7	U
104-51-8	n-Butylbenzene	7	U
96-12-8	1,2-Dibromo-3-Chloropropane	53	U

JW 10/5/10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP AOC-35-01A

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82489 Mod. Ref. No: _____ SDG No: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-015

Sample wt/vol 4.66 (g/mL) g Lab File ID: 10051917

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec 15 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	6	U	
75-01-4	Vinyl Chloride	6	U	
74-83-9	Bromomethane	6	U	
75-00-3	Chloroethane	6	U	
67-64-1	Acetone	64		L
75-35-4	1,1-Dichloroethene	6	U	
75-09-2	Methylene Chloride	6	U	
156-60-5	trans-1,2-Dichloroethene	6	U	
1634-04-4	Methyl-t-butyl ether	6	U	
75-34-3	1,1-Dichloroethane	6	U	
78-93-3	2-Butanone	25	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	6	U	
67-66-3	Chloroform	6	U	
71-55-6	1,1,1-Trichloroethane	6	U	
107-06-2	1,2-Dichloroethane	6	U	
56-23-5	Carbon Tetrachloride	6	U	
71-43-2	Benzene	6	U	
78-87-5	1,2-Dichloropropane	6	U	
75-15-0	Carbon Disulfide	13	U	
79-01-6	Trichloroethene	6	U	
75-27-4	Bromodichloromethane	6	U	
10061-01-5	cis-1,3-Dichloropropene	6	U	
108-10-1	4-Methyl-2-Pentanone	25	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	6	U	
79-00-5	1,1,2-Trichloroethane	6	U	
108-88-3	Toluene	6	U	

MW 10/5/10

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP AOC-35-01A

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82489 Mod Ref. No.: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-015

Sample wt/vol 4.66 (g/mL) g Lab File ID: 10051917

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 15 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	13	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	50	U

kw 10/5/10

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-UST-2/8-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82489 Mod Ref. No: _____ SDG No: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-016

Sample wt/vol 5.29 (g/mL) g Lab File ID: 10051918

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec 31 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	7	U	
75-01-4	Vinyl Chloride	7	U	
74-83-9	Bromomethane	7	U	
75-00-3	Chloroethane	7	U	
67-64-1	Acetone	32		L
75-35-4	1,1-Dichloroethene	7	U	
75-09-2	Methylene Chloride	7	U	
156-60-5	trans-1,2-Dichloroethene	7	U	
1634-04-4	Methyl-t-butyl ether	7	U	
75-34-3	1,1-Dichloroethane	7	U	
78-93-3	2-Butanone	27	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	7	U	
67-66-3	Chloroform	7	U	
71-55-6	1,1,1-Trichloroethane	7	U	
107-06-2	1,2-Dichloroethane	7	U	
56-23-5	Carbon Tetrachloride	7	U	
71-43-2	Benzene	7	U	
78-87-5	1,2-Dichloropropane	7	U	
75-15-0	Carbon Disulfide	14	U	
79-01-6	Trichloroethene	7	U	
75-27-4	Bromodichloromethane	7	U	
10061-01-5	cis-1,3-Dichloropropene	7	U	
108-10-1	4-Methyl-2-Pentanone	27	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	7	U	
79-00-5	1,1,2-Trichloroethane	7	U	
108-88-3	Toluene	7	U	

hw 10/5/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO
AOC-14-UST-2/8-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82489 Mod Ref. No.: _____ SDG No: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-016

Sample wt/vol 5.29 (g/mL) g Lab File ID: 10051918

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec 31 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	7	U
124-48-1	Dibromochloromethane	7	U
75-25-2	Bromoform	7	U
127-18-4	Tetrachloroethene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
108-38-3	m,p-Xylenes	14	U
100-42-5	Styrene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U
95-47-6	o-Xylene	7	U
98-82-8	Isopropylbenzene	7	U
103-65-1	n-Propylbenzene	7	U
108-67-8	1,3,5-Trimethylbenzene	7	U
95-63-6	1,2,4-Trimethylbenzene	7	U
104-51-8	n-Butylbenzene	7	U
96-12-8	1,2-Dibromo-3-Chloropropane	55	U

MW 10/5/10

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1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-14-UST-1/8-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82489 Mod. Ref. No.: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-017

Sample wt/vol 4.99 (g/mL) g Lab File ID: 10051919

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 30 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	7	U	
75-01-4	Vinyl Chloride	7	U	
74-83-9	Bromomethane	7	U	
75-00-3	Chloroethane	7	U	
67-64-1	Acetone	31		L
75-35-4	1,1-Dichloroethene	7	U	
75-09-2	Methylene Chloride	7	U	
156-60-5	trans-1,2-Dichloroethene	7	U	
1634-04-4	Methyl-t-butyl ether	7	U	
75-34-3	1,1-Dichloroethane	7	U	
78-93-3	2-Butanone	29	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	7	U	
67-66-3	Chloroform	7	U	
71-55-6	1,1,1-Trichloroethane	7	U	
107-06-2	1,2-Dichloroethane	7	U	
56-23-5	Carbon Tetrachloride	7	U	
71-43-2	Benzene	7	U	
78-87-5	1,2-Dichloropropane	7	U	
75-15-0	Carbon Disulfide	14	U	
79-01-6	Trichloroethene	7	U	
75-27-4	Bromodichloromethane	7	U	
10061-01-5	cis-1,3-Dichloropropene	7	U	
108-10-1	4-Methyl-2-Pentanone	29	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	7	U	
79-00-5	1,1,2-Trichloroethane	7	U	
108-88-3	Toluene	7	U	

WW 10/5/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-UST-1/8-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82489 Mod. Ref No.: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-017

Sample wt/vol 4.99 (g/mL) g Lab File ID: 10051919

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 30 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	7	U
124-48-1	Dibromochloromethane	7	U
75-25-2	Bromoform	7	U
127-18-4	Tetrachloroethene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
108-38-3	m,p-Xylenes	14	U
100-42-5	Styrene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U
95-47-6	o-Xylene	7	U
98-82-8	Isopropylbenzene	7	U
103-65-1	n-Propylbenzene	7	U
108-67-8	1,3,5-Trimethylbenzene	7	U
95-63-6	1,2,4-Trimethylbenzene	7	U
104-51-8	n-Butylbenzene	7	U
96-12-8	1,2-Dibromo-3-Chloropropane	57	U

LEW 10/5/10

17

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

AOC-14-2/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82489 Mod. Ref. No.: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-018

Sample wt/vol 5.34 (g/mL) g Lab File ID: 10051920

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 10 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl Chloride	5	U	
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	5	U	
67-64-1	Acetone	21	~~U~~	R
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene Chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl-t-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
78-93-3	2-Butanone	21	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
107-06-2	1,2-Dichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
71-43-2	Benzene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-15-0	Carbon Disulfide	10	U	
79-01-6	Trichloroethene	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-Pentanone	21	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
108-88-3	Toluene	5	U	

LW 10/5/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-2/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82489 Mod. Ref. No.: _____ SDG No: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-018

Sample wt/vol 5.34 (g/mL) g Lab File ID: 10051920

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec 10 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	10	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	42	U

MW 10/5/10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-1/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82489 Mod. Ref. No.: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-019

Sample wt/vol 4.53 (g/mL) g Lab File ID: 10051921

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 14 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	6	U	
75-01-4	Vinyl Chloride	6	U	
74-83-9	Bromomethane	6	U	
75-00-3	Chloroethane	6	U	
67-64-1	Acetone	28		L
75-35-4	1,1-Dichloroethene	6	U	
75-09-2	Methylene Chloride	6	U	
156-60-5	trans-1,2-Dichloroethene	6	U	
1634-04-4	Methyl-t-butyl ether	6	U	
75-34-3	1,1-Dichloroethane	6	U	
78-93-3	2-Butanone	26	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	6	U	
67-66-3	Chloroform	6	U	
71-55-6	1,1,1-Trichloroethane	6	U	
107-06-2	1,2-Dichloroethane	6	U	
56-23-5	Carbon Tetrachloride	6	U	
71-43-2	Benzene	6	U	
78-87-5	1,2-Dichloropropane	6	U	
75-15-0	Carbon Disulfide	13	U	
79-01-6	Trichloroethene	6	U	
75-27-4	Bromodichloromethane	6	U	
10061-01-5	cis-1,3-Dichloropropene	6	U	
108-10-1	4-Methyl-2-Pentanone	26	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	6	U	
79-00-5	1,1,2-Trichloroethane	6	U	
108-88-3	Toluene	6	U	

MW 10/5/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-1/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82489 Mod Ref. No.: _____ SDG No. : 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-019

Sample wt/vol 4.53 (g/mL) g Lab File ID: 10051921

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 14 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (μ L) Soil Aliquot Volume: _____ (μ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	13	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	51	U

10/5/10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-1/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82489 Mod Ref. No: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-020

Sample wt/vol 4.80 (g/mL) g Lab File ID: 10051922

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 17 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q	
74-87-3	Chloromethane	6	U	
75-01-4	Vinyl Chloride	6	U	
74-83-9	Bromomethane	6	U	
75-00-3	Chloroethane	6	U	
67-64-1	Acetone	24	~~J~~	L
75-35-4	1,1-Dichloroethene	6	U	
75-09-2	Methylene Chloride	6	U	
156-60-5	trans-1,2-Dichloroethene	6	U	
1634-04-4	Methyl-t-butyl ether	6	U	
75-34-3	1,1-Dichloroethane	6	U	
78-93-3	2-Butanone	25	~~U~~	R
156-59-2	cis-1,2-Dichloroethene	6	U	
67-66-3	Chloroform	6	U	
71-55-6	1,1,1-Trichloroethane	6	U	
107-06-2	1,2-Dichloroethane	6	U	
56-23-5	Carbon Tetrachloride	6	U	
71-43-2	Benzene	6	U	
78-87-5	1,2-Dichloropropane	6	U	
75-15-0	Carbon Disulfide	13	U	
79-01-6	Trichloroethene	6	U	
75-27-4	Bromodichloromethane	6	U	
10061-01-5	cis-1,3-Dichloropropene	6	U	
108-10-1	4-Methyl-2-Pentanone	25	~~U~~	R
10061-02-6	trans-1,3-Dichloropropene	6	U	
79-00-5	1,1,2-Trichloroethane	6	U	
108-88-3	Toluene	6	U	

KW 10/5/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-1/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82489 Mod. Ref. No.: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-020

Sample wt/vol 4.80 (g/mL) g Lab File ID: 10051922

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 17 Date Analyzed: 05/19/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	13	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	50	U

CW 10/5/10

ENVIRONMENTAL
Data Services, Inc.

SEMIVOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051707

Client: ARGO Systems, Glen Burnie, MD Date: October 4, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-35-9	10051707-001	Soil
2	AOC-35-8	10051707-002	Soil
3	AOC-35-7	10051707-003	Soil
4	AOC-35-6	10051707-004	Soil
5	AOC-35-1	10051707-005	Soil
6	AOC-35-3	10051707-006	Soil
7	AOC-35-2	10051707-007	Soil
8	AOC-35-5	10051707-008	Soil
9	AOC-35-4	10051707-009	Soil
10	AOC-35-13	10051707-010	Soil
11	AOC-35-14	10051707-011	Soil
12	AOC-35-10	10051707-012	Soil
13	AOC-35-15	10051707-013	Soil
14	DUP AOC-35-01	10051707-014	Soil
15	AOC-14-UST-2/8-10	10051707-016	Soil
16	AOC-14-UST-1/8-10	10051707-017	Soil
17	AOC-14-2/2-4	10051707-018	Soil
18	AOC-14-1/0-2	10051707-019	Soil
19	AOC-14-1/2-4	10051707-020	Soil
19MS	AOC-14-1/2-4MS	10051707-020MS	Soil
19MSD	AOC-14-1/2-4MSD	10051707-020MSD	Soil
20	AOC-14-2/0-2	10051707-021	Soil
21	R-65/2-4	10051707-022	Soil
22	EB-9	10051707-023	Water
23	EB-10	10051707-024	Water

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for water and soil samples, and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
05/20/10	Hexachlorocyclopentadiene	31.9%	None	All ND
	2,4-Dinitrophenol	25.6%	None	All ND
05/21/10	3,3-Dichlorobenzidine	25.1%	None	All ND
	Benzo(g,h,i)perylene	25.9%	J	4
05/22/10	n-Nitrosodi-n-propylamine	26.5%	None	All ND

Surrogates - All samples exhibited acceptable surrogate recoveries except the following.

Sample ID	Surrogate	%R	Qualifier
9	S5=Terphenyl-d14	195%	None for one out per fraction
12	S5=Terphenyl-d14	199%	
17	S5=Terphenyl-d14	176%	

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS sample exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria except the following.

Sample ID	Internal Standard	Area Count	Qualifier
1	IS6=Perylene-d12	Low	J/UJ
4	IS5=Chrysene-d12	Low	J/UJ
	IS6=Perylene-d12	Severely Low	J/R
5	IS6=Perylene-d12	Low	J/UJ
9	IS5=Chrysene-d12	Low	J/UJ
	IS6=Perylene-d12	Severely Low	J/R
10	IS6=Perylene-d12	Low	J/UJ
12	IS6=Perylene-d12	Low	J/UJ
14	IS6=Perylene-d12	Low	J/UJ
17	IS5=Chrysene-d12	Low	J/UJ
	IS6=Perylene-d12	Severely Low	J/R
18	IS6=Perylene-d12	Low	J/UJ

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level ug/L	Qualifier	Affected Samples
EB-9	None- ND	-	-	-	-
EB-10	None- ND	-	-	-	-

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-35-10 ug/kg	DUP AOC-35-01 ug/kg	RPD	Qualifier
Benzo(a)anthracene	210 U	150	NC	None
Benzo(a)pyrene	29 U	120	NC	None
Benzo(b)fluoranthene	210 U	150	NC	None
Benzo(k)fluoranthene	210 U	120	NC	None
Chrysene	210 U	150	NC	None
Fluoranthene	210 U	280	NC	None
Phenanthrene	210 U	150	NC	None
Pyrene	210 U	290	NC	None

Tentatively Identified Compounds (TICs) - TICs were not reported.

Compound Quantitation - No discrepancies were identified.

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-9

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82550 Mod. Ref No : _____ SDG No : 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-001

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10052034.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 27 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	230	U	
208-96-8	Acenaphthylene	230	U	
120-12-7	Anthracene	230	U	
56-55-3	Benzo(a)anthracene	230	U	
50-32-8	Benzo(a)pyrene	32	~~U~~	UJ
205-99-2	Benzo(b)fluoranthene	230	~~U~~	UJ
191-24-2	Benzo(g,h,i)perylene	230	~~U~~	UJ
207-08-9	Benzo(k)fluoranthene	230	~~U~~	UJ
111-44-4	bis(2-chloroethyl) ether	230	U	
108-60-1	bis(2-chloroisopropyl) ether	230	U	
117-81-7	bis(2-ethylhexyl) phthalate	230	U	
84-74-2	Di-n-butyl phthalate	460	U	
86-74-8	Carbazole	230	U	
106-47-8	4-Chloroaniline	460	U	
91-58-7	2-Chloronaphthalene	230	U	
95-57-8	2-Chlorophenol	230	U	
218-01-9	Chrysene	230	U	
53-70-3	Dibenz(a,h)Anthracene	32	~~U~~	UJ
132-64-9	Dibenzofuran	230	U	
95-50-1	1,2-Dichlorobenzene	230	U	
541-73-1	1,3-Dichlorobenzene	230	U	
106-46-7	1,4-Dichlorobenzene	230	U	
91-94-1	3,3-Dichlorobenzidine	230	U	
120-83-2	2,4-Dichlorophenol	230	U	
84-66-2	Diethyl phthalate	230	U	
105-67-9	2,4-Dimethylphenol	230	U	
51-28-5	2,4-Dinitrophenol	460	U	
121-14-2	2,4-Dinitrotoluene	230	U	
606-20-2	2,6-Dinitrotoluene	230	U	
206-44-0	Fluoranthene	230	U	
86-73-7	Fluorene	230	U	
118-74-1	Hexachlorobenzene	230	U	
87-68-3	Hexachlorobutadiene	230	U	
77-47-4	Hexachlorocyclopentadiene	230	U	

NW 10/5/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-9

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82550 Mod. Ref No : _____ SDG No : 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-001

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10052034.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 27 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	230	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	230	~~U~~ UJ
78-59-1	Isophorone	230	U
91-57-6	2-Methylnaphthalene	230	U
95-48-7	2-Methyl phenol	230	U
	3&4-Methylphenol	230	U
91-20-3	Naphthalene	230	U
98-95-3	Nitrobenzene	230	U
621-64-7	N-Nitrosodi-n-propyl amine	91	U
86-30-6	N-Nitrosodiphenylamine (1)	230	U
87-86-5	Pentachlorophenol	460	U
85-01-8	Phenanthrene	230	U
108-95-2	Phenol	230	U
129-00-0	Pyrene	230	U
103-23-1	Bis(2-ethylhexyl)adipate	230	U
120-82-1	1,2,4-Trichlorobenzene	230	U
88-06-2	2,4,6-Trichlorophenol	230	U
95-95-4	2,4,5-Trichlorophenol	230	U

(1) Cannot be separated from Diphenylamine

hW 10/5/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-8

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82550 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-002

Sample wt/vol: 30.05 (g/mL):g Lab File ID: 10052028.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/20/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	390	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	390	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	390	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

NW 10/5/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-8

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82550 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-002

Sample wt/vol: 30.05 (g/mL):g Lab File ID: 10052028.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/20/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	77	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

MW 10/5/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-7

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82550 Mod. Ref No : _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-003

Sample wt/vol: 30.07 (g/mL):g Lab File ID: 10052029.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	400	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	400	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	400	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

NW 10/5/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-7

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82550 Mod. Ref No : _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-003

Sample wt/vol: 30.07 (g/mL):g Lab File ID: 10052029.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/20/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	79	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

KW 10/5/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-6

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82551 Mod. Ref No : _____ SDG No : 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-004

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10052106.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	190	U	
208-96-8	Acenaphthylene	200		
120-12-7	Anthracene	190	U	
56-55-3	Benzo(a)anthracene	1,400		J
50-32-8	Benzo(a)pyrene	1,900		J
205-99-2	Benzo(b)fluoranthene	2,200		J
191-24-2	Benzo(g,h,i)perylene	1,300		J
207-08-9	Benzo(k)fluoranthene	1,300		J
111-44-4	bis(2-chloroethyl) ether	190	U	
108-60-1	bis(2-chloroisopropyl) ether	190	U	
117-81-7	bis(2-ethylhexyl) phthalate	190	U	
84-74-2	Di-n-butyl phthalate	370	U	
86-74-8	Carbazole	190	U	
106-47-8	4-Chloroaniline	370	U	
91-58-7	2-Chloronaphthalene	190	U	
95-57-8	2-Chlorophenol	190	U	
218-01-9	Chrysene	1,400		J
53-70-3	Dibenz(a,h)Anthracene	250		J
132-64-9	Dibenzofuran	190	U	
95-50-1	1,2-Dichlorobenzene	190	U	
541-73-1	1,3-Dichlorobenzene	190	U	
106-46-7	1,4-Dichlorobenzene	190	U	
91-94-1	3,3-Dichlorobenzidine	190	~~U~~	UJ
120-83-2	2,4-Dichlorophenol	190	U	
84-66-2	Diethyl phthalate	190	U	
105-67-9	2,4-Dimethylphenol	190	U	
51-28-5	2,4-Dinitrophenol	370	U	
121-14-2	2,4-Dinitrotoluene	190	U	
606-20-2	2,6-Dinitrotoluene	190	U	
206-44-0	Fluoranthene	1,100		
86-73-7	Fluorene	190	U	
118-74-1	Hexachlorobenzene	190	U	
87-68-3	Hexachlorobutadiene	190	U	
77-47-4	Hexachlorocyclopentadiene	190	U	

MJ 10/5/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-6

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82551 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-004

Sample wt/vol: 30.06 (g/mL):g Lab File ID: 10052106.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
67-72-1	Hexachloroethane	190	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	1,500		J
78-59-1	Isophorone	190	U	
91-57-6	2-Methylnaphthalene	190	U	
95-48-7	2-Methyl phenol	190	U	
	3&4-Methylphenol	190	U	
91-20-3	Naphthalene	190	U	
98-95-3	Nitrobenzene	190	U	
621-64-7	N-Nitrosodi-n-propyl amine	75	U	
86-30-6	N-Nitrosodiphenylamine (1)	190	U	
87-86-5	Pentachlorophenol	370	U	
85-01-8	Phenanthrene	250		
108-95-2	Phenol	190	U	
129-00-0	Pyrene	2,500		J
103-23-1	Bis(2-ethylhexyl)adipate	190	~~U~~	UJ
120-82-1	1,2,4-Trichlorobenzene	190	U	
88-06-2	2,4,6-Trichlorophenol	190	U	
95-95-4	2,4,5-Trichlorophenol	190	U	

(1) Cannot be separated from Diphenylamine

MW 10/5/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82550 Mod. Ref No : _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-005

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10052033.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	190	U	
208-96-8	Acenaphthylene	190	U	
120-12-7	Anthracene	190	U	
56-55-3	Benzo(a)anthracene	190	U	
50-32-8	Benzo(a)pyrene	27	~~U~~	UJ
205-99-2	Benzo(b)fluoranthene	190	~~U~~	↓
191-24-2	Benzo(g,h,i)perylene	190	~~U~~	↓
207-08-9	Benzo(k)fluoranthene	190	~~U~~	↓
111-44-4	bis(2-chloroethyl) ether	190	U	
108-60-1	bis(2-chloroisopropyl) ether	190	U	
117-81-7	bis(2-ethylhexyl) phthalate	190	U	
84-74-2	Di-n-butyl phthalate	390	U	
86-74-8	Carbazole	190	U	
106-47-8	4-Chloroaniline	390	U	
91-58-7	2-Chloronaphthalene	190	U	
95-57-8	2-Chlorophenol	190	U	
218-01-9	Chrysene	190	U	
53-70-3	Dibenz(a,h)Anthracene	27	~~U~~	UJ
132-64-9	Dibenzofuran	190	U	
95-50-1	1,2-Dichlorobenzene	190	U	
541-73-1	1,3-Dichlorobenzene	190	U	
106-46-7	1,4-Dichlorobenzene	190	U	
91-94-1	3,3-Dichlorobenzidine	190	U	
120-83-2	2,4-Dichlorophenol	190	U	
84-66-2	Diethyl phthalate	190	U	
105-67-9	2,4-Dimethylphenol	190	U	
51-28-5	2,4-Dinitrophenol	390	U	
121-14-2	2,4-Dinitrotoluene	190	U	
606-20-2	2,6-Dinitrotoluene	190	U	
206-44-0	Fluoranthene	190	U	
86-73-7	Fluorene	190	U	
118-74-1	Hexachlorobenzene	190	U	
87-68-3	Hexachlorobutadiene	190	U	
77-47-4	Hexachlorocyclopentadiene	190	U	

MW 10/5/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82550 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-005

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10052033.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	~~U~~ UJ
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	77	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

MW 10/5/10

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-3

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82550 Mod. Ref No : _____ SDG No : 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-006

Sample wt/vol: 30.12 (g/mL): g Lab File ID: 10052032.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/20/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	400	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	400	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	400	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

NW 10/5/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-3

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82550 Mod. Ref No.: _____ SDG No : 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-006

Sample wt/vol: 30.12 (g/mL):g Lab File ID: 10052032.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	81	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

MW 10/5/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82550 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-007

Sample wt/vol: 30.18 (g/mL): g Lab File ID: 10052027.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/20/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	390	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	390	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	390	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

NW 10/5/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82550 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-007

Sample wt/vol: 30.18 (g/mL):g Lab File ID: 10052027.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	79	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

NW 10/5/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-5

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82550 Mod Ref No.: _____ SDG No : 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-008

Sample wt/vol: 30.05 (g/mL):g Lab File ID: 10052023.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/20/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	390	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	390	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	27	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	390	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

MW 10/5/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-5

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82550 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-008

Sample wt/vol: 30.05 (g/mL):g Lab File ID: 10052023.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	78	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

NW 10/5/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82551 Mod. Ref No.: _____ SDG No : 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-009

Sample wt/vol: 30.12 (g/mL):g Lab File ID: 10052108.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	200	U	
208-96-8	Acenaphthylene	200	U	
120-12-7	Anthracene	200	U	
56-55-3	Benzo(a)anthracene	200	~~U~~	UJ
50-32-8	Benzo(a)pyrene	29	~~U~~	R
205-99-2	Benzo(b)fluoranthene	200	~~U~~	R
191-24-2	Benzo(g,h,i)perylene	200	~~U~~	R
207-08-9	Benzo(k)fluoranthene	200	~~U~~	R
111-44-4	bis(2-chloroethyl) ether	200	U	
108-60-1	bis(2-chloroisopropyl) ether	200	U	
117-81-7	bis(2-ethylhexyl) phthalate	200	U	
84-74-2	Di-n-butyl phthalate	410	U	
86-74-8	Carbazole	200	U	
106-47-8	4-Chloroaniline	410	U	
91-58-7	2-Chloronaphthalene	200	U	
95-57-8	2-Chlorophenol	200	U	
218-01-9	Chrysene	200	~~U~~	UJ
53-70-3	Dibenz(a,h)Anthracene	29	~~U~~	R
132-64-9	Dibenzofuran	200	U	
95-50-1	1,2-Dichlorobenzene	200	U	
541-73-1	1,3-Dichlorobenzene	200	U	
106-46-7	1,4-Dichlorobenzene	200	U	
91-94-1	3,3-Dichlorobenzidine	200	~~U~~	UJ
120-83-2	2,4-Dichlorophenol	200	U	
84-66-2	Diethyl phthalate	200	U	
105-67-9	2,4-Dimethylphenol	200	U	
51-28-5	2,4-Dinitrophenol	410	U	
121-14-2	2,4-Dinitrotoluene	200	U	
606-20-2	2,6-Dinitrotoluene	200	U	
206-44-0	Fluoranthene	200	U	
86-73-7	Fluorene	200	U	
118-74-1	Hexachlorobenzene	200	U	
87-68-3	Hexachlorobutadiene	200	U	
77-47-4	Hexachlorocyclopentadiene	200	U	

kw 10/5/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82551 Mod. Ref No : _____ SDG No : 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-009

Sample wt/vol: 30.12 (g/mL):g Lab File ID: 10052108.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
67-72-1	Hexachloroethane	200	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	~~U~~	R
78-59-1	Isophorone	200	U	
91-57-6	2-Methylnaphthalene	200	U	
95-48-7	2-Methyl phenol	200	U	
	3&4-Methylphenol	200	U	
91-20-3	Naphthalene	200	U	
98-95-3	Nitrobenzene	200	U	
621-64-7	N-Nitrosodi-n-propyl amine	82	U	
86-30-6	N-Nitrosodiphenylamine (1)	200	U	
87-86-5	Pentachlorophenol	410	U	
85-01-8	Phenanthrene	200	U	
108-95-2	Phenol	200	U	
129-00-0	Pyrene	200	~~U~~	UJ
103-23-1	Bis(2-ethylhexyl)adipate	200	~~U~~	UJ
120-82-1	1,2,4-Trichlorobenzene	200	U	
88-06-2	2,4,6-Trichlorophenol	200	U	
95-95-4	2,4,5-Trichlorophenol	200	U	

(1) Cannot be separated from Diphenylamine

NW 10/5/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-13

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82550 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-010

Sample wt/vol: 30.03 (g/mL): g Lab File ID: 10052035.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/20/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	~~U~~ UJ
205-99-2	Benzo(b)fluoranthene	200	~~U~~ ↓
191-24-2	Benzo(g,h,i)perylene	200	~~U~~ ↓
207-08-9	Benzo(k)fluoranthene	200	~~U~~ ↓
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	400	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	400	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	~~U~~ UJ
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	400	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

hw 10/5/10

10

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-35-13

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82550 Mod Ref No : _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-010

Sample wt/vol: 30.03 (g/mL):g Lab File ID: 10052035.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	~~U~~ UJ
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	79	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

NW 10/5/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-14

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82550 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-011

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10052030.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	400	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	400	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	400	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

MW 10/5/10

SW8270C

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-35-14

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82550 Mod. Ref No.: _____ SDG No : 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-011

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10052030.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	80	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

NW 10/5/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82551 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-012

Sample wt/vol: 30.15 (g/mL):g Lab File ID: 10052109.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/20/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	29	~~U~~ UJ
205-99-2	Benzo(b)fluoranthene	210	~~U~~ ↓
191-24-2	Benzo(g,h,i)perylene	210	~~U~~ ↓
207-08-9	Benzo(k)fluoranthene	210	~~U~~ ↓
111-44-4	bis(2-chloroethyl) ether	210	U
108-60-1	bis(2-chloroisopropyl) ether	210	U
117-81-7	bis(2-ethylhexyl) phthalate	210	U
84-74-2	Di-n-butyl phthalate	420	U
86-74-8	Carbazole	210	U
106-47-8	4-Chloroaniline	420	U
91-58-7	2-Chloronaphthalene	210	U
95-57-8	2-Chlorophenol	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	~~U~~ UJ
132-64-9	Dibenzofuran	210	U
95-50-1	1,2-Dichlorobenzene	210	U
541-73-1	1,3-Dichlorobenzene	210	U
106-46-7	1,4-Dichlorobenzene	210	U
91-94-1	3,3-Dichlorobenzidine	210	U
120-83-2	2,4-Dichlorophenol	210	U
84-66-2	Diethyl phthalate	210	U
105-67-9	2,4-Dimethylphenol	210	U
51-28-5	2,4-Dinitrophenol	420	U
121-14-2	2,4-Dinitrotoluene	210	U
606-20-2	2,6-Dinitrotoluene	210	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
118-74-1	Hexachlorobenzene	210	U
87-68-3	Hexachlorobutadiene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U

MW 10/5/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82551 Mod. Ref No : _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-012

Sample wt/vol: 30.15 (g/mL):g Lab File ID: 10052109.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	~~U~~ UJ
78-59-1	Isophorone	210	U
91-57-6	2-Methylnaphthalene	210	U
95-48-7	2-Methyl phenol	210	U
	3&4-Methylphenol	210	U
91-20-3	Naphthalene	210	U
98-95-3	Nitrobenzene	210	U
621-64-7	N-Nitrosodi-n-propyl amine	84	U
86-30-6	N-Nitrosodiphenylamine (1)	210	U
87-86-5	Pentachlorophenol	420	U
85-01-8	Phenanthrene	210	U
108-95-2	Phenol	210	U
129-00-0	Pyrene	210	U
103-23-1	Bis(2-ethylhexyl)adipate	210	U
120-82-1	1,2,4-Trichlorobenzene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U

(1) Cannot be separated from Diphenylamine

MW 10/5/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-15

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82550 Mod. Ref No : _____ SDG No : 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-013

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10052031.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/20/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	400	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	400	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	400	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

MW 10/5/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-15

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82550 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-013

Sample wt/vol: 30.08 (g/mL):g Lab File ID: 10052031.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	80	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

lw 10/5/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP AOC-35-01

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82550 Mod Ref No : _____ SDG No : 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-014

Sample wt/vol: 30.19 (g/mL):g Lab File ID: 10052036.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	200	U	
208-96-8	Acenaphthylene	200	U	
120-12-7	Anthracene	200	U	
56-55-3	Benzo(a)anthracene	150	J	
50-32-8	Benzo(a)pyrene	120		J
205-99-2	Benzo(b)fluoranthene	150	~~J~~	J
191-24-2	Benzo(g,h,i)perylene	200	~~U~~	UJ
207-08-9	Benzo(k)fluoranthene	120	~~J~~	J
111-44-4	bis(2-chloroethyl) ether	200	U	
108-60-1	bis(2-chloroisopropyl) ether	200	U	
117-81-7	bis(2-ethylhexyl) phthalate	200	U	
84-74-2	Di-n-butyl phthalate	400	U	
86-74-8	Carbazole	200	U	
106-47-8	4-Chloroaniline	400	U	
91-58-7	2-Chloronaphthalene	200	U	
95-57-8	2-Chlorophenol	200	U	
218-01-9	Chrysene	150	J	
53-70-3	Dibenz(a,h)Anthracene	28	~~U~~	UJ
132-64-9	Dibenzofuran	200	U	
95-50-1	1,2-Dichlorobenzene	200	U	
541-73-1	1,3-Dichlorobenzene	200	U	
106-46-7	1,4-Dichlorobenzene	200	U	
91-94-1	3,3-Dichlorobenzidine	200	U	
120-83-2	2,4-Dichlorophenol	200	U	
84-66-2	Diethyl phthalate	200	U	
105-67-9	2,4-Dimethylphenol	200	U	
51-28-5	2,4-Dinitrophenol	400	U	
121-14-2	2,4-Dinitrotoluene	200	U	
606-20-2	2,6-Dinitrotoluene	200	U	
206-44-0	Fluoranthene	280		
86-73-7	Fluorene	200	U	
118-74-1	Hexachlorobenzene	200	U	
87-68-3	Hexachlorobutadiene	200	U	
77-47-4	Hexachlorocyclopentadiene	200	U	

nw 10/5/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP AOC-35-01

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82550 Mod. Ref No : _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-014

Sample wt/vol: 30.19 (g/mL):g Lab File ID: 10052036.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	~~U~~ UJ
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	81	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	150	J
108-95-2	Phenol	200	U
129-00-0	Pyrene	290	
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

NW 10/5/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-14-UST-2/8-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82550 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-016

Sample wt/vol: 30.02 (g/mL):g Lab File ID: 10052024.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 31 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	240	U
208-96-8	Acenaphthylene	240	U
120-12-7	Anthracene	240	U
56-55-3	Benzo(a)anthracene	240	U
50-32-8	Benzo(a)pyrene	34	U
205-99-2	Benzo(b)fluoranthene	240	U
191-24-2	Benzo(g,h,i)perylene	240	U
207-08-9	Benzo(k)fluoranthene	240	U
111-44-4	bis(2-chloroethyl) ether	240	U
108-60-1	bis(2-chloroisopropyl) ether	240	U
117-81-7	bis(2-ethylhexyl) phthalate	240	U
84-74-2	Di-n-butyl phthalate	480	U
86-74-8	Carbazole	240	U
106-47-8	4-Chloroaniline	480	U
91-58-7	2-Chloronaphthalene	240	U
95-57-8	2-Chlorophenol	240	U
218-01-9	Chrysene	240	U
53-70-3	Dibenz(a,h)Anthracene	34	U
132-64-9	Dibenzofuran	240	U
95-50-1	1,2-Dichlorobenzene	240	U
541-73-1	1,3-Dichlorobenzene	240	U
106-46-7	1,4-Dichlorobenzene	240	U
91-94-1	3,3-Dichlorobenzidine	240	U
120-83-2	2,4-Dichlorophenol	240	U
84-66-2	Diethyl phthalate	240	U
105-67-9	2,4-Dimethylphenol	240	U
51-28-5	2,4-Dinitrophenol	480	U
121-14-2	2,4-Dinitrotoluene	240	U
606-20-2	2,6-Dinitrotoluene	240	U
206-44-0	Fluoranthene	240	U
86-73-7	Fluorene	240	U
118-74-1	Hexachlorobenzene	240	U
87-68-3	Hexachlorobutadiene	240	U
77-47-4	Hexachlorocyclopentadiene	240	U

RW 10/5/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-14-UST-2/8-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82550 Mod. Ref No.: _____ SDG No : 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-016

Sample wt/vol: 30.02 (g/mL):g Lab File ID: 10052024.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 31 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	240	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	240	U
78-59-1	Isophorone	240	U
91-57-6	2-Methylnaphthalene	240	U
95-48-7	2-Methyl phenol	240	U
	3&4-Methylphenol	240	U
91-20-3	Naphthalene	240	U
98-95-3	Nitrobenzene	240	U
621-64-7	N-Nitrosodi-n-propyl amine	97	U
86-30-6	N-Nitrosodiphenylamine (1)	240	U
87-86-5	Pentachlorophenol	480	U
85-01-8	Phenanthrene	240	U
108-95-2	Phenol	240	U
129-00-0	Pyrene	240	U
103-23-1	Bis(2-ethylhexyl)adipate	240	U
120-82-1	1,2,4-Trichlorobenzene	240	U
88-06-2	2,4,6-Trichlorophenol	240	U
95-95-4	2,4,5-Trichlorophenol	240	U

(1) Cannot be separated from Diphenylamine

NW 10/5/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-14-UST-1/8-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82550 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-017

Sample wt/vol: 30.04 (g/mL): g Lab File ID: 10052025.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 30 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	240	U
208-96-8	Acenaphthylene	240	U
120-12-7	Anthracene	240	U
56-55-3	Benzo(a)anthracene	240	U
50-32-8	Benzo(a)pyrene	33	U
205-99-2	Benzo(b)fluoranthene	240	U
191-24-2	Benzo(g,h,i)perylene	240	U
207-08-9	Benzo(k)fluoranthene	240	U
111-44-4	bis(2-chloroethyl) ether	240	U
108-60-1	bis(2-chloroisopropyl) ether	240	U
117-81-7	bis(2-ethylhexyl) phthalate	240	U
84-74-2	Di-n-butyl phthalate	480	U
86-74-8	Carbazole	240	U
106-47-8	4-Chloroaniline	480	U
91-58-7	2-Chloronaphthalene	240	U
95-57-8	2-Chlorophenol	240	U
218-01-9	Chrysene	240	U
53-70-3	Dibenz(a,h)Anthracene	33	U
132-64-9	Dibenzofuran	240	U
95-50-1	1,2-Dichlorobenzene	240	U
541-73-1	1,3-Dichlorobenzene	240	U
106-46-7	1,4-Dichlorobenzene	240	U
91-94-1	3,3-Dichlorobenzidine	240	U
120-83-2	2,4-Dichlorophenol	240	U
84-66-2	Diethyl phthalate	240	U
105-67-9	2,4-Dimethylphenol	240	U
51-28-5	2,4-Dinitrophenol	480	U
121-14-2	2,4-Dinitrotoluene	240	U
606-20-2	2,6-Dinitrotoluene	240	U
206-44-0	Fluoranthene	240	U
86-73-7	Fluorene	240	U
118-74-1	Hexachlorobenzene	240	U
87-68-3	Hexachlorobutadiene	240	U
77-47-4	Hexachlorocyclopentadiene	240	U

LW 10/5/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-14-UST-1/8-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82550 Mod Ref No : _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-017

Sample wt/vol: 30.04 (g/mL):g Lab File ID: 10052025.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 30 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	240	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	240	U
78-59-1	Isophorone	240	U
91-57-6	2-Methylnaphthalene	240	U
95-48-7	2-Methyl phenol	240	U
	3&4-Methylphenol	240	U
91-20-3	Naphthalene	240	U
98-95-3	Nitrobenzene	240	U
621-64-7	N-Nitrosodi-n-propyl amine	95	U
86-30-6	N-Nitrosodiphenylamine (1)	240	U
87-86-5	Pentachlorophenol	480	U
85-01-8	Phenanthrene	240	U
108-95-2	Phenol	240	U
129-00-0	Pyrene	240	U
103-23-1	Bis(2-ethylhexyl)adipate	240	U
120-82-1	1,2,4-Trichlorobenzene	240	U
88-06-2	2,4,6-Trichlorophenol	240	U
95-95-4	2,4,5-Trichlorophenol	240	U

(1) Cannot be separated from Diphenylamine

NW 10/5/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-14-2/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82551 Mod. Ref No.: _____ SDG No : 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-018

Sample wt/vol: 30.05 (g/mL):g Lab File ID: 10052107.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	180	U	
208-96-8	Acenaphthylene	180	U	
120-12-7	Anthracene	180	U	
56-55-3	Benzo(a)anthracene	120	~~J~~	J
50-32-8	Benzo(a)pyrene	120		J
205-99-2	Benzo(b)fluoranthene	150	J	
191-24-2	Benzo(g,h,i)perylene	110	J	
207-08-9	Benzo(k)fluoranthene	92	J	
111-44-4	bis(2-chloroethyl) ether	180	U	
108-60-1	bis(2-chloroisopropyl) ether	180	U	
117-81-7	bis(2-ethylhexyl) phthalate	180	U	
84-74-2	Di-n-butyl phthalate	370	U	
86-74-8	Carbazole	180	U	
106-47-8	4-Chloroaniline	370	U	
91-58-7	2-Chloronaphthalene	180	U	
95-57-8	2-Chlorophenol	180	U	
218-01-9	Chrysene	130	~~J~~	J
53-70-3	Dibenz(a,h)Anthracene	26	~~U~~	R
132-64-9	Dibenzofuran	180	U	
95-50-1	1,2-Dichlorobenzene	180	U	
541-73-1	1,3-Dichlorobenzene	180	U	
106-46-7	1,4-Dichlorobenzene	180	U	
91-94-1	3,3-Dichlorobenzidine	180	~~U~~	UJ
120-83-2	2,4-Dichlorophenol	180	U	
84-66-2	Diethyl phthalate	180	U	
105-67-9	2,4-Dimethylphenol	180	U	
51-28-5	2,4-Dinitrophenol	370	U	
121-14-2	2,4-Dinitrotoluene	180	U	
606-20-2	2,6-Dinitrotoluene	180	U	
206-44-0	Fluoranthene	190		
86-73-7	Fluorene	180	U	
118-74-1	Hexachlorobenzene	180	U	
87-68-3	Hexachlorobutadiene	180	U	
77-47-4	Hexachlorocyclopentadiene	180	U	

MW 10/5/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-14-2/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82551 Mod. Ref No : _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-018

Sample wt/vol: 30.05 (g/mL):g Lab File ID: 10052107.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	100	~~Y~~ J
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	74	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	160	J
108-95-2	Phenol	180	U
129-00-0	Pyrene	420	J
103-23-1	Bis(2-ethylhexyl)adipate	180	~~U~~ UJ
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine

MW 10/5/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-14-1/0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82550 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-019

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10052037.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	270	
50-32-8	Benzo(a)pyrene	320	J
205-99-2	Benzo(b)fluoranthene	290	
191-24-2	Benzo(g,h,i)perylene	160	~~J~~
207-08-9	Benzo(k)fluoranthene	280	J
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	390	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	390	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	300	
53-70-3	Dibenz(a,h)Anthracene	37	J
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	390	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	400	
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

hel 10/5/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-14-1/0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82550 Mod Ref No.: _____ SDG No : 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-019

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10052037.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	160	~~J~~ J
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	77	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	240	
108-95-2	Phenol	190	U
129-00-0	Pyrene	660	
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

AW 10/5/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-14-1/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82550 Mod. Ref No.: _____ SDG No : 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-020

Sample wt/vol: 30.14 (g/mL): g Lab File ID: 10052022.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	400	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	400	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	400	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

MW 10/5/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-14-1/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82550 Mod Ref No : _____ SDG No : 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-020

Sample wt/vol: 30.14 (g/mL): g Lab File ID: 10052022.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	80	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

NW 10/5/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-14-2/0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82550 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-021

Sample wt/vol: 30.07 (g/mL):g Lab File ID: 10052026.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	380	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	380	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

AW 10/5/10

20

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-14-2/0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82550 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-021

Sample wt/vol: 30.07 (g/mL):g Lab File ID: 10052026.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/20/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	76	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

NW 10/5/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-65/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82549 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-022

Sample wt/vol: 30.09 (g/mL):g Lab File ID: 10052008.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/20/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

MW 10/5/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
EB-9

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82560 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) WATER Lab Sample Id: 10051707-023

Sample wt/vol: 1000 (g/mL): ml Lab File ID: 10052211.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) CLEAR Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/22/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
83-32-9	Acenaphthene	5	U
208-96-8	Acenaphthylene	5	U
120-12-7	Anthracene	5	U
56-55-3	Benzo(a)anthracene	0.5	U
50-32-8	Benzo(a)pyrene	0.5	U
205-99-2	Benzo(b)fluoranthene	0.5	U
191-24-2	Benzo(g,h,i)perylene	5	U
207-08-9	Benzo(k)fluoranthene	0.5	U
218-01-9	Chrysene	2	U
53-70-3	Dibenz(a,h)Anthracene	0.5	U
206-44-0	Fluoranthene	5	U
86-73-7	Fluorene	5	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.5	U
91-57-6	2-Methylnaphthalene	2	U
91-20-3	Naphthalene	0.5	U
85-01-8	Phenanthrene	5	U
129-00-0	Pyrene	5	U

NW 10/5/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
EB-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82560 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) WATER Lab Sample Id: 10051707-024

Sample wt/vol: 1000 (g/mL): ml Lab File ID: 10052212.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) CLEAR Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/22/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
83-32-9	Acenaphthene	5	U
208-96-8	Acenaphthylene	5	U
120-12-7	Anthracene	5	U
56-55-3	Benzo(a)anthracene	0.5	U
50-32-8	Benzo(a)pyrene	0.5	U
205-99-2	Benzo(b)fluoranthene	0.5	U
191-24-2	Benzo(g,h,i)perylene	5	U
207-08-9	Benzo(k)fluoranthene	0.5	U
218-01-9	Chrysene	2	U
53-70-3	Dibenz(a,h)Anthracene	0.5	U
206-44-0	Fluoranthene	5	U
86-73-7	Fluorene	5	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.5	U
91-57-6	2-Methylnaphthalene	2	U
91-20-3	Naphthalene	0.5	U
85-01-8	Phenanthrene	5	U
129-00-0	Pyrene	5	U

kw 10/5/10

ENVIRONMENTAL
Data Services, Inc.

METALS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051707

Client: ARGO Systems, Glen Burnie, MD Date: October 5, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	EB-9	10051707-023	Water
2	EB-10	10051707-024	Water

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level ug/L	Qualifier	Affected Samples
EB-9	Zinc	15	150	None	All ND
EB-10	Zinc	14	140	None	All ND

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier	Affected Samples
Reference	Selenium	63%/64%/OK	L/UL	All samples
	Zinc	41%/42%/OK	L/UL	All samples

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate samples were not analyzed.

Compound Quantitation - No discrepancies were identified.

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB-9

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10051707

Matrix (soil/water): WATER Lab Sample ID: 10051707-023

Level (low/med): LOW Date Received: 05/17/2010

% Solids: _____ Batch #: 82519

Concentration Units (ug/ L or mg/kg dry weight) UG/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	1.0	U		MS	
7440-38-2	Arsenic	1.0	U		MS	
7440-41-7	Beryllium	0.5	U		MS	
7440-43-9	Cadmium	1.0	U		MS	
7440-47-3	Chromium	1.0	U		MS	
7440-50-8	Copper	1.0	U		MS	
7439-92-1	Lead	1.0	U		MS	
7439-97-6	Mercury	0.20	U		MS	
7440-02-0	Nickel	1.0	U		MS	
7782-49-2	Selenium	1.0	~~U~~		MS	UL
7440-22-4	Silver	1.0	U		MS	
7440-28-0	Thallium	1.0	U		MS	
7440-66-6	Zinc	15	~~U~~		MS	L

Color Before BLACK Clarity Before _____ Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments: _____

LW 10/5/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
EB-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10051707
Matrix (soil/water): WATER Lab Sample ID: 10051707-024
Level (low/med): LOW Date Received: 05/17/2010
% Solids: _____ Batch #: 82519

Concentration Units (ug/ L or mg/kg dry weight) UG/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	1.0	U		MS	
7440-38-2	Arsenic	1.0	U		MS	
7440-41-7	Beryllium	0.5	U		MS	
7440-43-9	Cadmium	1.0	U		MS	
7440-47-3	Chromium	1.0	U		MS	
7440-50-8	Copper	1.0	U		MS	
7439-92-1	Lead	1.0	U		MS	
7439-97-6	Mercury	0.20	U		MS	
7440-02-0	Nickel	1.0	U		MS	
7782-49-2	Selenium	1.0	~~U~~		MS	UL
7440-22-4	Silver	1.0	U		MS	
7440-28-0	Thallium	1.0	U		MS	
7440-66-6	Zinc	14	~~J~~		MS	L

Color Before BLACK Clarity Before _____ Texture: FINE
Color After: YELLOW Clarity After: CLEAR Artifacts: _____
Comments: _____

NW
10/5/10

ENVIRONMENTAL
Data Services, Inc.

GASOLINE RANGE ORGANICS (GRO)
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051707

Client: ARGO Systems, Glen Burnie, MD Date: October 5, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-35-9	10051707-001	Soil
2	AOC-35-8	10051707-002	Soil
3	AOC-35-7	10051707-003	Soil
4	AOC-35-6	10051707-004	Soil
5	AOC-35-1	10051707-005	Soil
6	AOC-35-3	10051707-006	Soil
7	AOC-35-2	10051707-007	Soil
8	AOC-35-5	10051707-008	Soil
9	AOC-35-4	10051707-009	Soil
10	AOC-35-13	10051707-010	Soil
11	AOC-35-14	10051707-011	Soil
12	AOC-35-10	10051707-012	Soil
13	AOC-35-15	10051707-013	Soil
14	DUP AOC-35-01A	10051707-015	Soil
15	AOC-14-UST-2/8-10	10051707-016	Soil
16	AOC-14-UST-1/8-10	10051707-017	Soil
17	AOC-14-2/2-4	10051707-018	Soil
18	AOC-14-1/0-2	10051707-019	Soil
19	AOC-14-1/2-4	10051707-020	Soil
20	AOC-14-2/0-2	10051707-021	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for soil samples.

Initial Calibration - The initial calibrations exhibited acceptable %RSD values.

Calibration Verification - The continuing calibrations exhibited acceptable %D values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD sample (reference) exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS sample(s) exhibited acceptable %R values.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-35-13 ug/kg	DUP AOC-35-01A ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound Identification - Retention times were acceptable and no further action was taken.

Compound Quantitation - No discrepancies were identified.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-9

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82459 Mod. Ref. No: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-001

Sample wt/vol 3.46 (g/mL) g Lab File ID: 10051754

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 27 Date Analyzed: 05/18/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	200	U

LW
10/5/10

SW8021B_SW8015

2

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-8

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82459 Mod Ref. No.: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-002

Sample wt/vol 5.49 (g/mL) g Lab File ID: 10051755

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 14 Date Analyzed: 05/18/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (μ L) Soil Aliquot Volume: _____ (μ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	110	U

hcl
10/5/10

3

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

AOC-35-7

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82459 Mod. Ref. No: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-003

Sample wt/vol 5.36 (g/mL) g Lab File ID: 10051756

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 16 Date Analyzed: 05/18/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (μ L) Soil Aliquot Volume: _____ (μ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	110	U

nw
10/5/10

4

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-6

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82459 Mod. Ref. No.: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-004

Sample wt/vol 5.76 (g/mL) g Lab File ID: 10051757

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 11 Date Analyzed: 05/18/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	69	J

MJ
10/5/10

5

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82459 Mod. Ref. No : _____ SDG No. : 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-005

Sample wt/vol 5.85 (g/mL) g Lab File ID: 10051758

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 14 Date Analyzed: 05/18/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	99	U

kw
10/5/10

SW8021B_SW8015

6

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-3

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82459 Mod. Ref. No.: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-006

Sample wt/vol 6.20 (g/mL) g Lab File ID: 10051759

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 18 Date Analyzed: 05/18/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (μ L) Soil Aliquot Volume: _____ (μ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	98	U

hw
10/5/10

7

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82459 Mod. Ref No : _____ SDG No : 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-007

Sample wt/vol 5.47 (g/mL) g Lab File ID: 10051760

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 16 Date Analyzed: 05/18/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	110	U

NW
10/15/10

8

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-5

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82459 Mod Ref No : _____ SDG No. : 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-008

Sample wt/vol 7.03 (g/mL) g Lab File ID: 10051761

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 15 Date Analyzed: 05/18/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	99	

hw
10/5/10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82459 Mod. Ref. No.: _____ SDG No. : 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-009

Sample wt/vol 6.26 (g/mL) g Lab File ID: 10051762

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 19 Date Analyzed: 05/18/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	52	J

NW
10/5/10

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-13

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82459 Mod. Ref. No.: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-010

Sample wt/vol 6.44 (g/mL) g Lab File ID: 10051763

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 16 Date Analyzed: 05/18/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	92	U

NJ
10/5/10

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-35-14

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82459 Mod. Ref. No.: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-011

Sample wt/vol 5.08 (g/mL) g Lab File ID: 10051764

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec 17 Date Analyzed: 05/18/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (μ L) Soil Aliquot Volume: _____ (μ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	120	U

NW
10/5/10

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82459 Mod. Ref No : _____ SDG No. : 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-012

Sample wt/vol 4.84 (g/mL) g Lab File ID: 10051765

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 21 Date Analyzed: 05/18/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	130	U

hel
10/5/10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-35-15

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82459 Mod. Ref. No.: _____ SDG No : 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-013

Sample wt/vol 4.80 (g/mL) g Lab File ID: 10051766

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec. 17 Date Analyzed: 05/18/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	130	U

KW
10/5/10

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP AOC-35-01A

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82459 Mod. Ref. No.: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-015

Sample wt/vol 5.54 (g/mL) g Lab File ID: 10051767

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec 15 Date Analyzed: 05/18/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	110	U

hw
10/5/10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-UST-2/8-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82459 Mod. Ref. No: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-016

Sample wt/vol 3.94 (g/mL) g Lab File ID: 10051768

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec 31 Date Analyzed: 05/18/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	180	U

NW
10/5/10

16

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-UST-1/8-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82492 Mod. Ref. No.: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-017

Sample wt/vol 3.88 (g/mL) g Lab File ID: 10051908

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec 30 Date Analyzed: 05/19/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	180	U

hw
10/5/10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-2/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82492 Mod. Ref. No.: _____ SDG No.: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-018

Sample wt/vol 6.55 (g/mL) g Lab File ID: 10051909

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec 10 Date Analyzed: 05/19/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	85	U

lw
10/5/10

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-1/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82492 Mod. Ref. No.: _____ SDG No : 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-019

Sample wt/vol 3.87 (g/mL) g Lab File ID: 10051910

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec 14 Date Analyzed: 05/19/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	110	J

NW
10/5/10

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-1/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82492 Mod. Ref. No : _____ SDG No : 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-020

Sample wt/vol 6.55 (g/mL) g Lab File ID: 10051911

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec 17 Date Analyzed: 05/19/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	92	U

MW 10/5/10

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-14-2/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82492 Mod. Ref No.: _____ SDG No: 10051707

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051707-021

Sample wt/vol 4.29 (g/mL) g Lab File ID: 10051912

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2010

% Moisture: not dec 12 Date Analyzed: 05/19/2010

GC Column: _____ ID: 0.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (μ L) Soil Aliquot Volume: _____ (μ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
	TPH-GRO (Gasoline Range Organics)	130	U

MW
10/5/10

ENVIRONMENTAL
Data Services, Inc.

DIESEL RANGE ORGANICS (DRO)
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051707

Client: ARGO Systems, Glen Burnie, MD Date: October 5, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-35-9	10051707-001	Soil
2	AOC-35-8	10051707-002	Soil
3	AOC-35-7	10051707-003	Soil
4	AOC-35-6	10051707-004	Soil
5	AOC-35-1	10051707-005	Soil
6	AOC-35-3	10051707-006	Soil
7	AOC-35-2	10051707-007	Soil
8	AOC-35-5	10051707-008	Soil
9	AOC-35-4	10051707-009	Soil
10	AOC-35-13	10051707-010	Soil
11	AOC-35-14	10051707-011	Soil
12	AOC-35-10	10051707-012	Soil
13	AOC-35-15	10051707-013	Soil
14	DUP AOC-35-01	10051707-014	Soil
15	AOC-14-UST-2/8-10	10051707-016	Soil
16	AOC-14-UST-1/8-10	10051707-017	Soil
16MS	AOC-14-UST-1/8-10MS	10051707-017MS	Soil
16MSD	AOC-14-UST-1/8-10MSD	10051707-017MSD	Soil
17	AOC-14-2/2-4	10051707-018	Soil
18	AOC-14-1/0-2	10051707-019	Soil
19	AOC-14-1/2-4	10051707-020	Soil
20	AOC-14-2/0-2	10051707-021	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days.

Initial Calibration - The initial calibrations exhibited acceptable %RSD values.

Calibration Verification - The continuing calibrations exhibited acceptable %D values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS sample(s) exhibited acceptable %R values.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-35-10 mg/kg	DUP AOC-35-01 mg/kg	RPD	Qualifier
TPH-DRO	18	15	18%	None

Compound Identification - Retention times were acceptable and no further action was taken.

Compound Quantitation - Several samples were analyzed at a dilution due to high concentrations of target compounds.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO

AOC-35-9

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82498 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-001

Sample wt/vol: 30.05 (g/mL):g Lab File ID: 10052043.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 27 Decanted: (Y/N) CLEAR Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	32	

lew
10/5/10

2

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-8

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82498 Mod. Ref No : _____ SDG No : 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-002

Sample wt/vol: 30.07 (g/mL):g Lab File ID: 10052053.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) CLEAR Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	6.4	J

kw
10/5/10

(1) Cannot be separated from Diphenylamine

SW8015DRO

3

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-35-7

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82498 Mod. Ref No : _____ SDG No : 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-003

Sample wt/vol: 30.03 (g/mL):g Lab File ID: 10052040.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) CLEAR Date Received: 05/17/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/20/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	12	U

kw
10/5/10

4

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-35-6

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82498 Mod. Ref No.: _____ SDG No : 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-004

Sample wt/vol: 30.52 (g/mL): g Lab File ID: 10052054.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) CLEAR Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	120	

MW
10/5/10

(1) Cannot be separated from Diphenylamine

SW8015DRO

5

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82498 Mod. Ref No : _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-005

Sample wt/vol: 30.49 (g/mL):g Lab File ID: 10052044.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) CLEAR Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	11	U

QW 10/5/10

6

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-3

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82498 Mod. Ref No : _____ SDG No : 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-006

Sample wt/vol: 30.06 (g/mL):g Lab File ID: 10052045.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) CLEAR Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	21	

NW
10/5/10

(1) Cannot be separated from Diphenylamine

SW8015DRO

7

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82498 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-007

Sample wt/vol: 30.21 (g/mL): g Lab File ID: 10052042.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) CLEAR Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	12	U

MW
10/5/10

SW8015DRO

8

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-5

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82498 Mod. Ref No : _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-008

Sample wt/vol: 30.13 (g/mL): g Lab File ID: 10052032.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) CLEAR Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	12	U

lw
10/5/10

(1) Cannot be separated from Diphenylamine

SW8015DRO

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82498 Mod. Ref No : _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-009

Sample wt/vol: 30.09 (g/mL):g Lab File ID: 10052039.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) CLEAR Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	26	

MJ
10/5/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-13

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82498 Mod. Ref No : _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-010

Sample wt/vol: 30.11 (g/mL): g Lab File ID: 10052046.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) CLEAR Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	16	

NW
10/5/10

(1) Cannot be separated from Diphenylamine

11

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO

AOC-35-14

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82498 Mod Ref No.: _____ SDG No : 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-011

Sample wt/vol: 30.04 (g/mL):g Lab File ID: 10052049.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) CLEAR Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	9.2	J

MW
10/5/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-35-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82498 Mod. Ref No : _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-012

Sample wt/vol: 30.15 (g/mL):g Lab File ID: 10052050.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) CLEAR Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	18	

LW
10/5/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-35-15

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82498 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-013

Sample wt/vol: 30.41 (g/mL):g Lab File ID: 10052051.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) CLEAR Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	8.8	J

NW
10/5/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP AOC-35-01

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82498 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-014

Sample wt/vol: 30.04 (g/mL): g Lab File ID: 10052052.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) CLEAR Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	15	

MW
10/5/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-14-UST-2/8-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82498 Mod Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-016

Sample wt/vol: 30.07 (g/mL):g Lab File ID: 10052030.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 31 Decanted: (Y/N) CLEAR Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	14	U

NW
10/5/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-14-UST-1/8-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82498 Mod. Ref No : _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-017

Sample wt/vol: 30.12 (g/mL):g Lab File ID: 10052033.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 30 Decanted: (Y/N) CLEAR Date Received: 05/17/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/20/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	14	U

LW 10/5/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-14-2/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82534 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-018

Sample wt/vol: 30.84 (g/mL):g Lab File ID: 10052128.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	150	

lw
10/5/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-14-1/0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82534 Mod. Ref No : _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-019

Sample wt/vol: 30.24 (g/mL):g Lab File ID: 10052127.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	25	

lw
10/5/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-14-1/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82534 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-020

Sample wt/vol: 30.29 (g/mL):g Lab File ID: 10052125.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	12	U

NW
10/5/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-14-2/0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82534 Mod. Ref No.: _____ SDG No.: 10051707

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051707-021

Sample wt/vol: 30.53 (g/mL):g Lab File ID: 10052126.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/17/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
	TPH-DRO (Diesel Range Organics)	11	U

MW 10/5/10

(1) Cannot be separated from Diphenylamine

ENVIRONMENTAL
Data Services, Inc.

PESTICIDES

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051632

Client: ARGO Systems, Glen Burnie, MD Date: October 4, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-3-21/0-2	10051632-001	Soil
2	AOC-3-21/2-4	10051632-002	Soil
3	AOC-3-38/0-2	10051632-003	Soil
4	AOC-3-38/2-4	10051632-004	Soil
5	AOC-3(GP07)-2/8-10	10051632-005	Soil
6	AOC-3(GP07)-1/8-10	10051632-006	Soil
7	AOC-3(GP07)-3/8-10	10051632-007	Soil
8	AOC-3(GP07)-4/10-12	10051632-008	Soil
9	AOC-3(GP02)-4/8-10	10051632-009	Soil
10	AOC-3(GP02)-3/8-10	10051632-010	Soil
10MS	AOC-3(GP02)-3/8-10MS	10051632-010MS	Soil
10MSD	AOC-3(GP02)-3/8-10MSD	10051632-010MSD	Soil
11	AOC-3(GP02)-1/8-10	10051632-011	Soil
12	AOC-3(GP02)-2/8-10	10051632-012	Soil
13	DUP-AOC-3-06	10051632-013	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days.

Instrument performance - All 4,4'-DDT/endrin % breakdown, resolution check mixture and PEMs were within criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD values.

Calibration Verification - The continuing calibrations exhibited acceptable %D values except the following.

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
05/21/10	4,4-DDT	39.8%	None	All ND
	Endrin aldehyde	47.6%	None	
	Methoxychlor	29.5%	None	

Surrogates - All samples exhibited acceptable surrogate recoveries except the following.

Sample ID	Surrogate	%R	Qualifier
1	TCX1	179%	None- ND
3	DCB1	151%	J

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier
10	4,4-DDT	69%/77%/OK	L/UL

Laboratory Control Sample - Several LCS samples exhibited high %R values, but all associated samples were non-detect, so no qualifications were required.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-3(GP07)-4/10-12 ug/kg	DUP-AOC-3-06 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound Identification - Retention times were acceptable and no further action was taken.

Compound Quantitation - Several samples were analyzed at a dilution due to high concentrations of target compounds.

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-21/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No.: 10051632

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051632-001

Sample wt/vol: 10.33 (g/mL): g Lab File ID: 10052027.D

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/14/2010

Extraction : (Type) SONC Date Extracted: 05/19/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 5.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82575

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	110	U
72-55-9	4,4-DDE	110	U
50-29-3	4,4-DDT	110	U
309-00-2	Aldrin	110	U
319-84-6	alpha-BHC	110	U
5103-71-9	alpha-Chlordane	110	U
319-85-7	beta-BHC	110	U
319-86-8	delta-BHC	110	U
60-57-1	Dieldrin	110	U
959-98-8	Endosulfan I	110	U
33213-65-9	Endosulfan II	110	U
1031-07-8	Endosulfan sulfate	110	U
72-20-8	Endrin	110	U
7421-93-4	Endrin aldehyde	110	U
53494-70-5	Endrin ketone	110	U
58-89-9	gamma-BHC (Lindane)	110	U
5103-74-2	gamma-Chlordane	110	U
76-44-8	Heptachlor	110	U
1024-57-3	Heptachlor epoxide	110	U
72-43-5	Methoxychlor	110	U
8001-35-2	Toxaphene	1,100	U

lin 10/4/10

SW8081B

2

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-21/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10051632

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051632-002

Sample wt/vol: 10.41 (g/mL): g Lab File ID: 10052410.D

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/14/2010

Extraction : (Type) SONC Date Extracted: 05/19/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 05/24/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 40.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82587

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	480	J
72-55-9	4,4-DDE	860	U
50-29-3	4,4-DDT	860	U
309-00-2	Aldrin	860	U
319-84-6	alpha-BHC	860	U
5103-71-9	alpha-Chlordane	860	U
319-85-7	beta-BHC	860	U
319-86-8	delta-BHC	860	U
60-57-1	Dieldrin	860	U
959-98-8	Endosulfan I	860	U
33213-65-9	Endosulfan II	860	U
1031-07-8	Endosulfan sulfate	860	U
72-20-8	Endrin	860	U
7421-93-4	Endrin aldehyde	860	U
53494-70-5	Endrin ketone	860	U
58-89-9	gamma-BHC (Lindane)	860	U
5103-74-2	gamma-Chlordane	860	U
76-44-8	Heptachlor	860	U
1024-57-3	Heptachlor epoxide	860	U
72-43-5	Methoxychlor	860	U
8001-35-2	Toxaphene	8,600	U

NW
10/4/10

SW8081B

3

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-38/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10051632

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051632-003

Sample wt/vol: 10.35 (g/mL): g Lab File ID: 10052412.D

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/14/2010

Extraction : (Type) SONC Date Extracted: 05/19/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/24/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 5.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82587

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
72-54-8	4,4-DDD	65	~~J~~	J
72-55-9	4,4-DDE	120	U	
50-29-3	4,4-DDT	120		J
309-00-2	Aldrin	120	U	
319-84-6	alpha-BHC	120	U	
5103-71-9	alpha-Chlordane	120	U	
319-85-7	beta-BHC	120	U	
319-86-8	delta-BHC	120	U	
60-57-1	Dieldrin	120	U	
959-98-8	Endosulfan I	120	U	
33213-65-9	Endosulfan II	120	U	
1031-07-8	Endosulfan sulfate	120	U	
72-20-8	Endrin	120	U	
7421-93-4	Endrin aldehyde	120	U	
53494-70-5	Endrin ketone	120	U	
58-89-9	gamma-BHC (Lindane)	120	U	
5103-74-2	gamma-Chlordane	120	U	
76-44-8	Heptachlor	120	U	
1024-57-3	Heptachlor epoxide	120	U	
72-43-5	Methoxychlor	120	U	
8001-35-2	Toxaphene	1,200	U	

NW
10/4/10

SW8081B

4

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-38/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No.: 10051632

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051632-004

Sample wt/vol: 10.28 (g/mL): g Lab File ID: 10052023.D

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/14/2010

Extraction : (Type) SONC Date Extracted: 05/19/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82575

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

MW
10/4/10

SW8081B

5

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3(GP07)-2/8-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051632

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051632-005

Sample wt/vol: 10.31 (g/mL): g Lab File ID: 10052031.D

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/14/2010

Extraction : (Type) SONC Date Extracted: 05/19/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82575

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	25	U
72-55-9	4,4-DDE	25	U
50-29-3	4,4-DDT	25	U
309-00-2	Aldrin	25	U
319-84-6	alpha-BHC	25	U
5103-71-9	alpha-Chlordane	25	U
319-85-7	beta-BHC	25	U
319-86-8	delta-BHC	25	U
60-57-1	Dieldrin	25	U
959-98-8	Endosulfan I	25	U
33213-65-9	Endosulfan II	25	U
1031-07-8	Endosulfan sulfate	25	U
72-20-8	Endrin	25	U
7421-93-4	Endrin aldehyde	25	U
53494-70-5	Endrin ketone	25	U
58-89-9	gamma-BHC (Lindane)	25	U
5103-74-2	gamma-Chlordane	25	U
76-44-8	Heptachlor	25	U
1024-57-3	Heptachlor epoxide	25	U
72-43-5	Methoxychlor	25	U
8001-35-2	Toxaphene	250	U

MW 10/4/10

SW8081B

6

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3(GP07)-1/8-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051632

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051632-006

Sample wt/vol: 10.29 (g/mL): g Lab File ID: 10052033.D

% Moisture: 30 Decanted: (Y/N) N Date Received: 05/14/2010

Extraction : (Type) SONC Date Extracted: 05/19/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82575

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	28	U
72-55-9	4,4-DDE	28	U
50-29-3	4,4-DDT	28	U
309-00-2	Aldrin	28	U
319-84-6	alpha-BHC	28	U
5103-71-9	alpha-Chlordane	28	U
319-85-7	beta-BHC	28	U
319-86-8	delta-BHC	28	U
60-57-1	Dieldrin	28	U
959-98-8	Endosulfan I	28	U
33213-65-9	Endosulfan II	28	U
1031-07-8	Endosulfan sulfate	28	U
72-20-8	Endrin	28	U
7421-93-4	Endrin aldehyde	28	U
53494-70-5	Endrin ketone	28	U
58-89-9	gamma-BHC (Lindane)	28	U
5103-74-2	gamma-Chlordane	28	U
76-44-8	Heptachlor	28	U
1024-57-3	Heptachlor epoxide	28	U
72-43-5	Methoxychlor	28	U
8001-35-2	Toxaphene	280	U

NW
10/4/10

SW8081B

7

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3(GP07)-3/8-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No : 10051632

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051632-007

Sample wt/vol: 10.34 (g/mL): g Lab File ID: 10052142.D

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/14/2010

Extraction : (Type) SONC Date Extracted: 05/19/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82576

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	21	U
72-55-9	4,4-DDE	21	U
50-29-3	4,4-DDT	21	U
309-00-2	Aldrin	21	U
319-84-6	alpha-BHC	21	U
5103-71-9	alpha-Chlordane	21	U
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
60-57-1	Dieldrin	21	U
959-98-8	Endosulfan I	21	U
33213-65-9	Endosulfan II	21	U
1031-07-8	Endosulfan sulfate	21	U
72-20-8	Endrin	21	U
7421-93-4	Endrin aldehyde	21	U
53494-70-5	Endrin ketone	21	U
58-89-9	gamma-BHC (Lindane)	21	U
5103-74-2	gamma-Chlordane	21	U
76-44-8	Heptachlor	21	U
1024-57-3	Heptachlor epoxide	21	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	210	U

NW
10/4/10

SW8081B

8

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3(GP07)-4/10-12

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No. _____ SDG No.: 10051632

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051632-008

Sample wt/vol: 10.26 (g/mL): g Lab File ID: 10052138.D

% Moisture: 23 Decanted: (Y/N) N Date Received: 05/14/2010

Extraction : (Type) SONC Date Extracted: 05/19/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82576

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	25	U
72-55-9	4,4-DDE	25	U
50-29-3	4,4-DDT	25	U
309-00-2	Aldrin	25	U
319-84-6	alpha-BHC	25	U
5103-71-9	alpha-Chlordane	25	U
319-85-7	beta-BHC	25	U
319-86-8	delta-BHC	25	U
60-57-1	Dieldrin	25	U
959-98-8	Endosulfan I	25	U
33213-65-9	Endosulfan II	25	U
1031-07-8	Endosulfan sulfate	25	U
72-20-8	Endrin	25	U
7421-93-4	Endrin aldehyde	25	U
53494-70-5	Endrin ketone	25	U
58-89-9	gamma-BHC (Lindane)	25	U
5103-74-2	gamma-Chlordane	25	U
76-44-8	Heptachlor	25	U
1024-57-3	Heptachlor epoxide	25	U
72-43-5	Methoxychlor	25	U
8001-35-2	Toxaphene	250	U

lw
10/4/10

SW8081B

9

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3(GP02)-4/8-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051632

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051632-009

Sample wt/vol: 10.38 (g/mL): g Lab File ID: 10052140.D

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/14/2010

Extraction : (Type) SONC Date Extracted: 05/19/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 5.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82576

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	110	U
72-55-9	4,4-DDE	110	U
50-29-3	4,4-DDT	110	U
309-00-2	Aldrin	110	U
319-84-6	alpha-BHC	110	U
5103-71-9	alpha-Chlordane	110	U
319-85-7	beta-BHC	110	U
319-86-8	delta-BHC	110	U
60-57-1	Dieldrin	110	U
959-98-8	Endosulfan I	110	U
33213-65-9	Endosulfan II	110	U
1031-07-8	Endosulfan sulfate	110	U
72-20-8	Endrin	110	U
7421-93-4	Endrin aldehyde	110	U
53494-70-5	Endrin ketone	110	U
58-89-9	gamma-BHC (Lindane)	110	U
5103-74-2	gamma-Chlordane	110	U
76-44-8	Heptachlor	110	U
1024-57-3	Heptachlor epoxide	110	U
72-43-5	Methoxychlor	110	U
8001-35-2	Toxaphene	1,100	U

WW
10/4/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3(GP02)-3/8-10

10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No. _____ SDG No.: 10051632

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051632-010

Sample wt/vol: 10.22 (g/mL): g Lab File ID: 10052019.D

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/14/2010

Extraction : (Type) SONC Date Extracted: 05/19/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82575

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	23	U
50-29-3	4,4-DDT	23	~~U~~ UL
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U

NW
10/4/10

SW8081B

11

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3(GP02)-1/8-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051632

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051632-011

Sample wt/vol: 10.25 (g/mL): g Lab File ID: 10052144.D

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/14/2010

Extraction : (Type) SONC Date Extracted: 05/19/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82576

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

KW
10/4/10

SW8081B

12

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3(GP02)-2/8-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10051632

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051632-012

Sample wt/vol: 10.31 (g/mL): g Lab File ID: 10052130.D

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/14/2010

Extraction : (Type) SONC Date Extracted: 05/19/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82576

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

MW
10/4/10

SW8081B

13

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-3-06

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051632

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051632-013

Sample wt/vol: 10.41 (g/mL): g Lab File ID: 10052137.D

% Moisture: 23 Decanted: (Y/N) N Date Received: 05/14/2010

Extraction : (Type) SONC Date Extracted: 05/20/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82577

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	25	U
72-55-9	4,4-DDE	25	U
50-29-3	4,4-DDT	25	U
309-00-2	Aldrin	25	U
319-84-6	alpha-BHC	25	U
5103-71-9	alpha-Chlordane	25	U
319-85-7	beta-BHC	25	U
319-86-8	delta-BHC	25	U
60-57-1	Dieldrin	25	U
959-98-8	Endosulfan I	25	U
33213-65-9	Endosulfan II	25	U
1031-07-8	Endosulfan sulfate	25	U
72-20-8	Endrin	25	U
7421-93-4	Endrin aldehyde	25	U
53494-70-5	Endrin ketone	25	U
58-89-9	gamma-BHC (Lindane)	25	U
5103-74-2	gamma-Chlordane	25	U
76-44-8	Heptachlor	25	U
1024-57-3	Heptachlor epoxide	25	U
72-43-5	Methoxychlor	25	U
8001-35-2	Toxaphene	250	U

MW
10/4/10

SW8081B

ENVIRONMENTAL
Data Services, Inc.

SEMIVOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051427

Client: ARGO Systems, Glen Burnie, MD Date: October 3, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: N(b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-3-21/0-2	10051427-001	Soil
2	AOC-3-21/2-4	10051427-002	Soil
3	AOC-3-38/0-2	10051427-003	Soil
4	AOC-3-38/2-4	10051427-004	Soil
5	AOC-3(GP07)-2/8-10	10051427-005	Soil
6	AOC-3(GP07)-1/8-10	10051427-006	Soil
7	AOC-3(GP07)-3/8-10	10051427-007	Soil
8	AOC-3(GP07)-4/10-12	10051427-008	Soil
9	AOC-3(GP02)-4/8-10	10051427-009	Soil
10	AOC-3(GP02)-3/8-10	10051427-010	Soil
10MS	AOC-3(GP02)-3/8-10MS	10051427-010MS	Soil
10MSD	AOC-3(GP02)-3/8-10MSD	10051427-010MSD	Soil
11	AOC-3(GP02)-1/8-10	10051427-011	Soil
12	AOC-3(GP02)-2/8-10	10051427-012	Soil
13	DUP-AOC-3-06	10051427-013	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

CCAL Date	Compound	%D	Qualifier	Affected Samples
05/19/10	Indeno(1,2,3-c,d)pyrene	30.6%	None	All ND
	Dibenz(a,h)anthracene	29.9%	None	All ND
05/20/10	Benzo(g,h,i)perylene	27.5%	J	3

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria except the following.

Sample ID	Internal Standard	Area Count	Qualifier
1	IS6=Perylene-d12	Low	J/UJ
9	IS6=Perylene-d12	Low	J/UJ

Method Blank - The method blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-3(GP07)-4/10-12 ug/kg	DUP-AOC-3-06 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound Quantitation - No discrepancies were identified.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-3-21/0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82515 Mod. Ref No : _____ SDG No : 10051427

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051427-001

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10052013.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	26	~~U~~ J
205-99-2	Benzo(b)fluoranthene	180	~~U~~ UJ
191-24-2	Benzo(g,h,i)perylene	180	~~U~~ UJ
207-08-9	Benzo(k)fluoranthene	180	~~U~~ UJ
111-44-4	bis(2-chloroethyl) ether	180	U
108-60-1	bis(2-chloroisopropyl) ether	180	U
117-81-7	bis(2-ethylhexyl) phthalate	180	U
84-74-2	Di-n-butyl phthalate	370	U
86-74-8	Carbazole	180	U
106-47-8	4-Chloroaniline	370	U
91-58-7	2-Chloronaphthalene	180	U
95-57-8	2-Chlorophenol	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	~~U~~ UJ
132-64-9	Dibenzofuran	180	U
95-50-1	1,2-Dichlorobenzene	180	U
541-73-1	1,3-Dichlorobenzene	180	U
106-46-7	1,4-Dichlorobenzene	180	U
91-94-1	3,3-Dichlorobenzidine	180	U
120-83-2	2,4-Dichlorophenol	180	U
84-66-2	Diethyl phthalate	180	U
105-67-9	2,4-Dimethylphenol	180	U
51-28-5	2,4-Dinitrophenol	370	U
121-14-2	2,4-Dinitrotoluene	180	U
606-20-2	2,6-Dinitrotoluene	180	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
118-74-1	Hexachlorobenzene	180	U
87-68-3	Hexachlorobutadiene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U

SW8270C

 NW 10/3/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-21/0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82515 Mod Ref No.: _____ SDG No : 10051427

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051427-001

Sample wt/vol: 30.08 (g/mL):g Lab File ID: 10052013.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/14/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/19/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	~~U~~ UJ
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	74	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	180	U
108-95-2	Phenol	180	U
129-00-0	Pyrene	180	U
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine

NW 10/3/10

SW8270C

2

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-21/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82513 Mod. Ref No.: _____ SDG No : 10051427

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051427-002

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10051917.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	370	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	370	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	370	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

SW8270C

 MW 10/3/10

2

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-21/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82513 Mod. Ref No.: _____ SDG No : 10051427

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051427-002

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10051917.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	75	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

MW 10/3/10

SW8270C

3

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-38/0-2

Lab Name : PHASE SEPARATION SCIENCE — Contract: 1462309

Lab Code : PHASE — Case No.: 82515 — Mod Ref No.: _____ — SDG No.: 10051427

Matrix : (SOIL/SED/WATER) SOIL — Lab Sample Id: 10051427-003

Sample wt/vol: 30.14 (g/mL): g — Lab File ID: 10052009.D

Level: (LOW/MED) LOW — Extraction: (Type) SONC

% Moisture: 16 — Decanted: (Y/N) N — Date Received: 05/14/2010

Concentrated Extract Volume: 1 (µ L) — Date Extracted: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 — Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N — pH: N/A — Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	270	
50-32-8	Benzo(a)pyrene	260	
205-99-2	Benzo(b)fluoranthene	260	
191-24-2	Benzo(g,h,i)perylene	170	~~J~~ J
207-08-9	Benzo(k)fluoranthene	180	J
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	400	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	400	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	280	
53-70-3	Dibenz(a,h)Anthracene	28	
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	400	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	450	
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

NW 10/3/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-38/0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82515 Mod Ref No.: _____ SDG No : 10051427

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051427-003

Sample wt/vol: 30.14 (g/mL): g Lab File ID: 10052009.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	J
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	79	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	280	
108-95-2	Phenol	200	U
129-00-0	Pyrene	450	
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

MW 10/3/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-38/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82515 Mod Ref No : _____ SDG No.: 10051427

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051427-004

Sample wt/vol: 30.02 (g/mL):g Lab File ID: 10052008.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	370	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	370	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	370	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

SW8270C

NW 10/3/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-38/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82515 Mod Ref No.: _____ SDG No : 10051427

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051427-004

Sample wt/vol: 30.02 (g/mL): g Lab File ID: 10052008.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	75	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

NW 10/3/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3(GP07)-2/8-10

Lab Name : PHASE SEPARATION SCIENCE
Contract: 1462309
Lab Code : PHASE
Case No.: 82515
Mod Ref No.:
SDG No : 10051427
Matrix : (SOIL/SED/WATER) SOIL
Lab Sample Id: 10051427-005
Sample wt/vol: 30.01 (g/mL): g
Lab File ID: 10052004.D
Level: (LOW/MED) LOW
Extraction: (Type) SONC
% Moisture: 22
Decanted: (Y/N) N
Date Received: 05/14/2010
Concentrated Extract Volume: 1 (µ L)
Date Extracted: 05/19/2010
Injection Volume: (µ L)
GPC Factor: 1.000
Date Analyzed: 05/20/2010
GPC Cleanup (Y/N): N
pH: N/A
Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	30	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
111-44-4	bis(2-chloroethyl) ether	210	U
108-60-1	bis(2-chloroisopropyl) ether	210	U
117-81-7	bis(2-ethylhexyl) phthalate	210	U
84-74-2	Di-n-butyl phthalate	430	U
86-74-8	Carbazole	210	U
106-47-8	4-Chloroaniline	430	U
91-58-7	2-Chloronaphthalene	210	U
95-57-8	2-Chlorophenol	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	30	U
132-64-9	Dibenzofuran	210	U
95-50-1	1,2-Dichlorobenzene	210	U
541-73-1	1,3-Dichlorobenzene	210	U
106-46-7	1,4-Dichlorobenzene	210	U
91-94-1	3,3-Dichlorobenzidine	210	U
120-83-2	2,4-Dichlorophenol	210	U
84-66-2	Diethyl phthalate	210	U
105-67-9	2,4-Dimethylphenol	210	U
51-28-5	2,4-Dinitrophenol	430	U
121-14-2	2,4-Dinitrotoluene	210	U
606-20-2	2,6-Dinitrotoluene	210	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
118-74-1	Hexachlorobenzene	210	U
87-68-3	Hexachlorobutadiene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U

SW8270C

 hw 10/3/10

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IE - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3(GP07)-2/8-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82515 Mod. Ref No.: _____ SDG No.: 10051427

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051427-005

Sample wt/vol: 30.01 (g/mL):g Lab File ID: 10052004.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/14/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/19/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
78-59-1	Isophorone	210	U
91-57-6	2-Methylnaphthalene	210	U
95-48-7	2-Methyl phenol	210	U
	3&4-Methylphenol	210	U
91-20-3	Naphthalene	210	U
98-95-3	Nitrobenzene	210	U
621-64-7	N-Nitrosodi-n-propyl amine	85	U
86-30-6	N-Nitrosodiphenylamine (1)	210	U
87-86-5	Pentachlorophenol	430	U
85-01-8	Phenanthrene	210	U
108-95-2	Phenol	210	U
129-00-0	Pyrene	210	U
103-23-1	Bis(2-ethylhexyl)adipate	210	U
120-82-1	1,2,4-Trichlorobenzene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U

(1) Cannot be separated from Diphenylamine

NW 10/3/10

SW8270C

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1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-3(GP07)-1/8-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82514 Mod. Ref No.: _____ SDG No : 10051427

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051427-006

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10051903.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 30 Decanted: (Y/N) N Date Received: 05/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	240	U
208-96-8	Acenaphthylene	240	U
120-12-7	Anthracene	240	U
56-55-3	Benzo(a)anthracene	240	U
50-32-8	Benzo(a)pyrene	33	U
205-99-2	Benzo(b)fluoranthene	240	U
191-24-2	Benzo(g,h,i)perylene	240	U
207-08-9	Benzo(k)fluoranthene	240	U
111-44-4	bis(2-chloroethyl) ether	240	U
108-60-1	bis(2-chloroisopropyl) ether	240	U
117-81-7	bis(2-ethylhexyl) phthalate	240	U
84-74-2	Di-n-butyl phthalate	480	U
86-74-8	Carbazole	240	U
106-47-8	4-Chloroaniline	480	U
91-58-7	2-Chloronaphthalene	240	U
95-57-8	2-Chlorophenol	240	U
218-01-9	Chrysene	240	U
53-70-3	Dibenz(a,h)Anthracene	51	
132-64-9	Dibenzofuran	240	U
95-50-1	1,2-Dichlorobenzene	240	U
541-73-1	1,3-Dichlorobenzene	240	U
106-46-7	1,4-Dichlorobenzene	240	U
91-94-1	3,3-Dichlorobenzidine	240	U
120-83-2	2,4-Dichlorophenol	240	U
84-66-2	Diethyl phthalate	240	U
105-67-9	2,4-Dimethylphenol	240	U
51-28-5	2,4-Dinitrophenol	480	U
121-14-2	2,4-Dinitrotoluene	240	U
606-20-2	2,6-Dinitrotoluene	240	U
206-44-0	Fluoranthene	240	U
86-73-7	Fluorene	240	U
118-74-1	Hexachlorobenzene	240	U
87-68-3	Hexachlorobutadiene	240	U
77-47-4	Hexachlorocyclopentadiene	240	U

SW8270C

NW 10/3/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3(GP07)-1/8-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82514 Mod. Ref No.: _____ SDG No.: 10051427

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051427-006

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10051903.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 30 Decanted: (Y/N) N Date Received: 05/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	240	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	240	U
78-59-1	Isophorone	240	U
91-57-6	2-Methylnaphthalene	240	U
95-48-7	2-Methyl phenol	240	U
	3&4-Methylphenol	240	U
91-20-3	Naphthalene	240	U
98-95-3	Nitrobenzene	240	U
621-64-7	N-Nitrosodi-n-propyl amine	95	U
86-30-6	N-Nitrosodiphenylamine (1)	240	U
87-86-5	Pentachlorophenol	480	U
85-01-8	Phenanthrene	240	U
108-95-2	Phenol	240	U
129-00-0	Pyrene	240	U
103-23-1	Bis(2-ethylhexyl)adipate	240	U
120-82-1	1,2,4-Trichlorobenzene	240	U
88-06-2	2,4,6-Trichlorophenol	240	U
95-95-4	2,4,5-Trichlorophenol	240	U

(1) Cannot be separated from Diphenylamine

NW 10/3/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3(GP07)-3/8-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82513 Mod. Ref No : _____ SDG No.: 10051427

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051427-007

Sample wt/vol: 30.04 (g/mL):g Lab File ID: 10051916.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
111-44-4	bis(2-chloroethyl) ether	180	U
108-60-1	bis(2-chloroisopropyl) ether	180	U
117-81-7	bis(2-ethylhexyl) phthalate	180	U
84-74-2	Di-n-butyl phthalate	370	U
86-74-8	Carbazole	180	U
106-47-8	4-Chloroaniline	370	U
91-58-7	2-Chloronaphthalene	180	U
95-57-8	2-Chlorophenol	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	180	U
95-50-1	1,2-Dichlorobenzene	180	U
541-73-1	1,3-Dichlorobenzene	180	U
106-46-7	1,4-Dichlorobenzene	180	U
91-94-1	3,3-Dichlorobenzidine	180	U
120-83-2	2,4-Dichlorophenol	180	U
84-66-2	Diethyl phthalate	180	U
105-67-9	2,4-Dimethylphenol	180	U
51-28-5	2,4-Dinitrophenol	370	U
121-14-2	2,4-Dinitrotoluene	180	U
606-20-2	2,6-Dinitrotoluene	180	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
118-74-1	Hexachlorobenzene	180	U
87-68-3	Hexachlorobutadiene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U

SW8270C

MW 10/3/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3(GP07)-3/8-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82513 Mod. Ref No.: _____ SDG No.: 10051427

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051427-007

Sample wt/vol: 30.04 (g/mL): g Lab File ID: 10051916.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	74	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	180	U
108-95-2	Phenol	180	U
129-00-0	Pyrene	180	U
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine

MW 10/3/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3(GP07)-4/10-12

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82515 Mod Ref No.: _____ SDG No : 10051427

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051427-008

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10052003.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23 Decanted: (Y/N) N Date Received: 05/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	220	U
208-96-8	Acenaphthylene	220	U
120-12-7	Anthracene	220	U
56-55-3	Benzo(a)anthracene	220	U
50-32-8	Benzo(a)pyrene	30	U
205-99-2	Benzo(b)fluoranthene	220	U
191-24-2	Benzo(g,h,i)perylene	220	U
207-08-9	Benzo(k)fluoranthene	220	U
111-44-4	bis(2-chloroethyl) ether	220	U
108-60-1	bis(2-chloroisopropyl) ether	220	U
117-81-7	bis(2-ethylhexyl) phthalate	220	U
84-74-2	Di-n-butyl phthalate	430	U
86-74-8	Carbazole	220	U
106-47-8	4-Chloroaniline	430	U
91-58-7	2-Chloronaphthalene	220	U
95-57-8	2-Chlorophenol	220	U
218-01-9	Chrysene	220	U
53-70-3	Dibenz(a,h)Anthracene	30	U
132-64-9	Dibenzofuran	220	U
95-50-1	1,2-Dichlorobenzene	220	U
541-73-1	1,3-Dichlorobenzene	220	U
106-46-7	1,4-Dichlorobenzene	220	U
91-94-1	3,3-Dichlorobenzidine	220	U
120-83-2	2,4-Dichlorophenol	220	U
84-66-2	Diethyl phthalate	220	U
105-67-9	2,4-Dimethylphenol	220	U
51-28-5	2,4-Dinitrophenol	430	U
121-14-2	2,4-Dinitrotoluene	220	U
606-20-2	2,6-Dinitrotoluene	220	U
206-44-0	Fluoranthene	220	U
86-73-7	Fluorene	220	U
118-74-1	Hexachlorobenzene	220	U
87-68-3	Hexachlorobutadiene	220	U
77-47-4	Hexachlorocyclopentadiene	220	U

SW8270C

 NW 10/3/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3(GP07)-4/10-12

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82515 Mod. Ref No : _____ SDG No : 10051427

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051427-008

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10052003.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23 Decanted: (Y/N) N Date Received: 05/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	220	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	220	U
78-59-1	Isophorone	220	U
91-57-6	2-Methylnaphthalene	220	U
95-48-7	2-Methyl phenol	220	U
	3&4-Methylphenol	220	U
91-20-3	Naphthalene	220	U
98-95-3	Nitrobenzene	220	U
621-64-7	N-Nitrosodi-n-propyl amine	86	U
86-30-6	N-Nitrosodiphenylamine (1)	220	U
87-86-5	Pentachlorophenol	430	U
85-01-8	Phenanthrene	220	U
108-95-2	Phenol	220	U
129-00-0	Pyrene	220	U
103-23-1	Bis(2-ethylhexyl)adipate	220	U
120-82-1	1,2,4-Trichlorobenzene	220	U
88-06-2	2,4,6-Trichlorophenol	220	U
95-95-4	2,4,5-Trichlorophenol	220	U

(1) Cannot be separated from Diphenylamine

MW 10/3/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3(GP02)-4/8-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82515 Mod. Ref No.: _____ SDG No : 10051427

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051427-009

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10052012.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	200	U	
208-96-8	Acenaphthylene	200	U	
120-12-7	Anthracene	200	U	
56-55-3	Benzo(a)anthracene	140	J	
50-32-8	Benzo(a)pyrene	100		J
205-99-2	Benzo(b)fluoranthene	110	J	J
191-24-2	Benzo(g,h,i)perylene	200	U	UJ
207-08-9	Benzo(k)fluoranthene	200	U	UJ
111-44-4	bis(2-chloroethyl) ether	200	U	
108-60-1	bis(2-chloroisopropyl) ether	200	U	
117-81-7	bis(2-ethylhexyl) phthalate	200	U	
84-74-2	Di-n-butyl phthalate	400	U	
86-74-8	Carbazole	200	U	
106-47-8	4-Chloroaniline	400	U	
91-58-7	2-Chloronaphthalene	200	U	
95-57-8	2-Chlorophenol	200	U	
218-01-9	Chrysene	130	J	
53-70-3	Dibenz(a,h)Anthracene	28	U	UJ
132-64-9	Dibenzofuran	200	U	
95-50-1	1,2-Dichlorobenzene	200	U	
541-73-1	1,3-Dichlorobenzene	200	U	
106-46-7	1,4-Dichlorobenzene	200	U	
91-94-1	3,3-Dichlorobenzidine	200	U	
120-83-2	2,4-Dichlorophenol	200	U	
84-66-2	Diethyl phthalate	200	U	
105-67-9	2,4-Dimethylphenol	200	U	
51-28-5	2,4-Dinitrophenol	400	U	
121-14-2	2,4-Dinitrotoluene	200	U	
606-20-2	2,6-Dinitrotoluene	200	U	
206-44-0	Fluoranthene	300		
86-73-7	Fluorene	200	U	
118-74-1	Hexachlorobenzene	200	U	
87-68-3	Hexachlorobutadiene	200	U	
77-47-4	Hexachlorocyclopentadiene	200	U	

 NW 10/3/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3(GP02)-4/8-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82515 Mod Ref No.: _____ SDG No : 10051427

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051427-009

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10052012.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	~~U~~ UJ
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	79	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	370	
108-95-2	Phenol	200	U
129-00-0	Pyrene	310	
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

 MW 10/3/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3(GP02)-3/8-10 MS/M

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82513 Mod Ref No.: _____ SDG No : 10051427

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051427-010

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10051912.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	390	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	390	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	27	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	390	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

 AW 10/3/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3(GP02)-3/8-10 MS/M

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82513 Mod Ref No.: _____ SDG No.: 10051427

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051427-010

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10051912.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	78	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

hw 10/3/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3(GP02)-1/8-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82513 Mod. Ref No.: _____ SDG No.: 10051427

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051427-011

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10051919.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	410	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	410	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	410	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

SW8270C

 NW 10/3/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3(GP02)-1/8-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82513 Mod. Ref No.: _____ SDG No : 10051427

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051427-011

Sample wt/vol: 30.08 (g/mL):g Lab File ID: 10051919.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	81	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

MW 10/3/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3(GP02)-2/8-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82513 Mod. Ref No.: _____ SDG No.: 10051427

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051427-012

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10051918.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/14/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/19/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
111-44-4	bis(2-chloroethyl) ether	180	U
108-60-1	bis(2-chloroisopropyl) ether	180	U
117-81-7	bis(2-ethylhexyl) phthalate	180	U
84-74-2	Di-n-butyl phthalate	370	U
86-74-8	Carbazole	180	U
106-47-8	4-Chloroaniline	370	U
91-58-7	2-Chloronaphthalene	180	U
95-57-8	2-Chlorophenol	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	180	U
95-50-1	1,2-Dichlorobenzene	180	U
541-73-1	1,3-Dichlorobenzene	180	U
106-46-7	1,4-Dichlorobenzene	180	U
91-94-1	3,3-Dichlorobenzidine	180	U
120-83-2	2,4-Dichlorophenol	180	U
84-66-2	Diethyl phthalate	180	U
105-67-9	2,4-Dimethylphenol	180	U
51-28-5	2,4-Dinitrophenol	370	U
121-14-2	2,4-Dinitrotoluene	180	U
606-20-2	2,6-Dinitrotoluene	180	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
118-74-1	Hexachlorobenzene	180	U
87-68-3	Hexachlorobutadiene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U

SW8270C

 NW 10/3/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3(GP02)-2/8-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82513 Mod Ref No : _____ SDG No : 10051427

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051427-012

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10051918.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	74	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	180	U
108-95-2	Phenol	180	U
129-00-0	Pyrene	180	U
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine

 RW 10/3/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-AOC-3-06

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82515 Mod Ref No.: _____ SDG No.: 10051427

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051427-013

Sample wt/vol: 30.12 (g/mL): g Lab File ID: 10052005.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23 Decanted: (Y/N) N Date Received: 05/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	220	U
208-96-8	Acenaphthylene	220	U
120-12-7	Anthracene	220	U
56-55-3	Benzo(a)anthracene	220	U
50-32-8	Benzo(a)pyrene	30	U
205-99-2	Benzo(b)fluoranthene	220	U
191-24-2	Benzo(g,h,i)perylene	220	U
207-08-9	Benzo(k)fluoranthene	220	U
111-44-4	bis(2-chloroethyl) ether	220	U
108-60-1	bis(2-chloroisopropyl) ether	220	U
117-81-7	bis(2-ethylhexyl) phthalate	220	U
84-74-2	Di-n-butyl phthalate	430	U
86-74-8	Carbazole	220	U
106-47-8	4-Chloroaniline	430	U
91-58-7	2-Chloronaphthalene	220	U
95-57-8	2-Chlorophenol	220	U
218-01-9	Chrysene	220	U
53-70-3	Dibenz(a,h)Anthracene	30	U
132-64-9	Dibenzofuran	220	U
95-50-1	1,2-Dichlorobenzene	220	U
541-73-1	1,3-Dichlorobenzene	220	U
106-46-7	1,4-Dichlorobenzene	220	U
91-94-1	3,3-Dichlorobenzidine	220	U
120-83-2	2,4-Dichlorophenol	220	U
84-66-2	Diethyl phthalate	220	U
105-67-9	2,4-Dimethylphenol	220	U
51-28-5	2,4-Dinitrophenol	430	U
121-14-2	2,4-Dinitrotoluene	220	U
606-20-2	2,6-Dinitrotoluene	220	U
206-44-0	Fluoranthene	220	U
86-73-7	Fluorene	220	U
118-74-1	Hexachlorobenzene	220	U
87-68-3	Hexachlorobutadiene	220	U
77-47-4	Hexachlorocyclopentadiene	220	U

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 kw 10/3/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
DUP-AOC-3-06

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82515 Mod. Ref No : _____ SDG No.: 10051427

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051427-013

Sample wt/vol: 30.12 (g/mL): g Lab File ID: 10052005.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23 Decanted: (Y/N) N Date Received: 05/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	220	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	220	U
78-59-1	Isophorone	220	U
91-57-6	2-Methylnaphthalene	220	U
95-48-7	2-Methyl phenol	220	U
	3&4-Methylphenol	220	U
91-20-3	Naphthalene	220	U
98-95-3	Nitrobenzene	220	U
621-64-7	N-Nitrosodi-n-propyl amine	86	U
86-30-6	N-Nitrosodiphenylamine (1)	220	U
87-86-5	Pentachlorophenol	430	U
85-01-8	Phenanthrene	220	U
108-95-2	Phenol	220	U
129-00-0	Pyrene	220	U
103-23-1	Bis(2-ethylhexyl)adipate	220	U
120-82-1	1,2,4-Trichlorobenzene	220	U
88-06-2	2,4,6-Trichlorophenol	220	U
95-95-4	2,4,5-Trichlorophenol	220	U

(1) Cannot be separated from Diphenylamine

 lew 10/3/10

SW8270C

ENVIRONMENTAL
Data Services, Inc.

SEMIVOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051312

Client: ARGO Systems, Glen Burnie, MD Date: October 4, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-3-11/0-2	10051312-001	Soil
2	AOC-3-11/2-4	10051312-002	Soil
3	AOC-3-4/0-2	10051312-003	Soil
4	AOC-3-4/2-4	10051312-004	Soil
5	AOC-3-39/0-2	10051312-005	Soil
5MS	AOC-3-39/0-2MS	10051312-005MS	Soil
5MSD	AOC-3-39/0-2MSD	10051312-005MSD	Soil
6	AOC-3-39/2-4	10051312-006	Soil
7	AOC-3-23/0-2	10051312-007	Soil
8	AOC-3-23/2-4	10051312-008	Soil
9	AOC-3-16/0-2	10051312-009	Soil
10	AOC-3-16/2-4	10051312-010	Soil
11	AOC-3-20/0-2	10051312-011	Soil
12	AOC-3-20/2-4	10051312-012	Soil
13	AOC-3-9/0-2	10051312-013	Soil
14	AOC-3-9/2-4	10051312-014	Soil
15	AOC-3-13/0-2	10051312-015	Soil
16	AOC-3-13/2-4	10051312-016	Soil
17	AOC-3-6/0-2	10051312-017	Soil
18	AOC-3-6/2-4	10051312-018	Soil
19	AOC-3-25/0-2	10051312-019	Soil
20	AOC-3-25/2-4	10051312-020	Soil
21	AOC-3-18/0-2	10051312-021	Soil
22	AOC-3-18/2-4	10051312-022	Soil
22MS	AOC-3-18/2-4MS	10051312-022MS	Soil
22MSD	AOC-3-18/2-4MSD	10051312-022MSD	Soil
23	AOC-3-46/0-2	10051312-023	Soil
24	AOC-3-46/2-4	10051312-024	Soil
25	AOC-3-50/0-2	10051312-025	Soil
26	AOC-3-50/2-4	10051312-026	Soil
27	AOC-3-48/0-2	10051312-027	Soil
28	AOC-3-48/2-4	10051312-028	Soil
29	AOC-3-49/0-2	10051312-029	Soil
30	AOC-3-49/2-4	10051312-030	Soil
31	AOC-3-42/0-2	10051312-031	Soil

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
32	AOC-3-42/2-4	10051312-032	Soil
33	AOC-3-37/0-2	10051312-033	Soil
34	AOC-3-37/2-4	10051312-034	Soil
35	AOC-3-30/0-2	10051312-035	Soil
36	AOC-3-30/2-4	10051312-036	Soil
37	AOC-3-28/0-2	10051312-037	Soil
38	AOC-3-28/2-4	10051312-038	Soil
39	AOC-3-34/0-2	10051312-039	Soil
40	AOC-3-34/2-4	10051312-040	Soil
41	AOC-3-29/0-2	10051312-041	Soil
42	AOC-3-29/2-4	10051312-042	Soil
43	AOC-3-36/0-2	10051312-043	Soil
43MS	AOC-3-36/0-2MS	10051312-043MS	Soil
43MSD	AOC-3-36/0-2MSD	10051312-043MSD	Soil
44	AOC-3-36/2-4	10051312-044	Soil
45	AOC-3-41/0-2	10051312-045	Soil
46	AOC-3-41/2-4	10051312-046	Soil
47	AOC-3-40/0-2	10051312-047	Soil
48	AOC-3-40/2-4	10051312-048	Soil
49	DUP-AOC-3-02/2-4	10051312-049	Soil
50	DUP-AOC-3-03/2-4	10051312-050	Soil
51	AOC-2A-19/0-1	10051312-052	Soil
52	AOC-2A-19/2-4	10051312-053	Soil
53	AOC-2A-28/0-1(A)	10051312-054	Soil
54	DUP-AOC-3-01/0-2	10051312-056	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
05/19/10	3,3'-Dichlorobenzidine	26.9%	None	All ND

Surrogates - All samples exhibited acceptable surrogate recoveries except the following.

Sample ID	Surrogate	%R	Qualifier
27	S1=2-Fluorobiphenyl	128%	None for one out per fraction
35	S1=2-Fluorobiphenyl	116%	

MS/MSD - The MS/MSD samples exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier
5	2,4-Dimethylphenol	OK/OK/39	None for RPD alone

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria except the following.

Sample ID	Internal Standard	Area Count	Qualifier
3	IS6=Perylene-d12	Low	J/UJ- Associated compounds
9	IS6=Perylene-d12	Low	
17	IS6=Perylene-d12	Low	
19	IS6=Perylene-d12	Low	
25	IS6=Perylene-d12	Low	
27	IS6=Perylene-d12	Low	
28	IS6=Perylene-d12	Low	
35	IS6=Perylene-d12	Low	
41	IS5=Chrysene-d12	Low	
	IS6=Perylene-d12	Low	
42	IS5=Chrysene-d12	Low	
	IS6=Perylene-d12	Low	
43	IS6=Perylene-d12	Low	
44	IS6=Perylene-d12	Low	
47	IS6=Perylene-d12	Low	
54	IS6=Perylene-d12	Low	

Method Blank - The method blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-3-39/2-4 ug/kg	DUP-AOC-3-02/2-4 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-3-40/2-4 ug/kg	DUP-AOC-3-03/2-4 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-3-25/0-2 ug/kg	DUP-AOC-3-01/0-2 ug/kg	RPD	Qualifier
Benzo(a)anthracene	150	110	31%	None
Benzo(a)pyrene	160	120	29%	None
Benzo(b)fluoranthene	210	130	47%	None
Benzo(g,h,i)perylene	99	180 U	NC	None
Benzo(k)fluoranthene	160	120	29%	None
Chrysene	170	120	34%	None
Fluoranthene	240	210	13%	None
Indeno(1,2,3-c,d)Pyrene	100	180 U	NC	None
Phenanthrene	120	91	27%	None
Pyrene	340	250	31%	None

Compound Quantitation - EDS sample ID# 35 was analyzed at a 10X dilution due to high concentrations of target compounds.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-11 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82427 Mod. Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-001

Sample wt/vol: 30.08 (g/mL):g Lab File ID: 10051727.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/17/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/17/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	380	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	380	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

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NW 10/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-11 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82427 Mod. Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-001

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10051727.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/17/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	76	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

NEW 10/4/10

SW8270C

2

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-11 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82427 Mod Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-002

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10051728.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
111-44-4	bis(2-chloroethyl) ether	180	U
108-60-1	bis(2-chloroisopropyl) ether	180	U
117-81-7	bis(2-ethylhexyl) phthalate	180	U
84-74-2	Di-n-butyl phthalate	370	U
86-74-8	Carbazole	180	U
106-47-8	4-Chloroaniline	370	U
91-58-7	2-Chloronaphthalene	180	U
95-57-8	2-Chlorophenol	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	180	U
95-50-1	1,2-Dichlorobenzene	180	U
541-73-1	1,3-Dichlorobenzene	180	U
106-46-7	1,4-Dichlorobenzene	180	U
91-94-1	3,3-Dichlorobenzidine	180	U
120-83-2	2,4-Dichlorophenol	180	U
84-66-2	Diethyl phthalate	180	U
105-67-9	2,4-Dimethylphenol	180	U
51-28-5	2,4-Dinitrophenol	370	U
121-14-2	2,4-Dinitrotoluene	180	U
606-20-2	2,6-Dinitrotoluene	180	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
118-74-1	Hexachlorobenzene	180	U
87-68-3	Hexachlorobutadiene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U

SW8270C

NW 10/4/10

2

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-11 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82427 Mod. Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-002

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10051728.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/17/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	74	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	180	U
108-95-2	Phenol	180	U
129-00-0	Pyrene	180	U
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine

NW 10/4/10

SW8270C

3

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-4 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82431 Mod Ref No : _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-003

Sample wt/vol: 30.06 (g/mL):g Lab File ID: 10051748.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	190	U	
208-96-8	Acenaphthylene	190	U	
120-12-7	Anthracene	120	J	
56-55-3	Benzo(a)anthracene	520		J
50-32-8	Benzo(a)pyrene	510		J
205-99-2	Benzo(b)fluoranthene	520		J
191-24-2	Benzo(g,h,i)perylene	270		J
207-08-9	Benzo(k)fluoranthene	450		J
111-44-4	bis(2-chloroethyl) ether	190	U	
108-60-1	bis(2-chloroisopropyl) ether	190	U	
117-81-7	bis(2-ethylhexyl) phthalate	190	~~U~~	UJ
84-74-2	Di-n-butyl phthalate	380	U	
86-74-8	Carbazole	190	U	
106-47-8	4-Chloroaniline	380	U	
91-58-7	2-Chloronaphthalene	190	U	
95-57-8	2-Chlorophenol	190	U	
218-01-9	Chrysene	500		J
53-70-3	Dibenz(a,h)Anthracene	40		J
132-64-9	Dibenzofuran	190	U	
95-50-1	1,2-Dichlorobenzene	190	U	
541-73-1	1,3-Dichlorobenzene	190	U	
106-46-7	1,4-Dichlorobenzene	190	U	
91-94-1	3,3-Dichlorobenzidine	190	~~U~~	UJ
120-83-2	2,4-Dichlorophenol	190	U	
84-66-2	Diethyl phthalate	190	U	
105-67-9	2,4-Dimethylphenol	190	U	
51-28-5	2,4-Dinitrophenol	380	U	
121-14-2	2,4-Dinitrotoluene	190	U	
606-20-2	2,6-Dinitrotoluene	190	U	
206-44-0	Fluoranthene	800		
86-73-7	Fluorene	190	U	
118-74-1	Hexachlorobenzene	190	U	
87-68-3	Hexachlorobutadiene	190	U	
77-47-4	Hexachlorocyclopentadiene	190	U	

KEJ 10/4/10

SW8270C

3

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-4 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82431 Mod. Ref No : _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-003

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10051748.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	250	J
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	76	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	530	
108-95-2	Phenol	190	U
129-00-0	Pyrene	1,500	J
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

NW 10/4/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-4 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82427 Mod. Ref No : _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-004

Sample wt/vol: 30.14 (g/mL): g Lab File ID: 10051729.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	390	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	390	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	27	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	390	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

MEJ 10/4/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-4 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82427 Mod Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-004

Sample wt/vol: 30.14 (g/mL): g Lab File ID: 10051729.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	78	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

NW 10/4/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-39 / 0-2 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82467 Mod Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-005

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10051836.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	64	
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	120	J
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	390	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	390	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	71	
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	390	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	110	J
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

NW 10/4/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-39 / 0-2 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82467 Mod Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-005

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10051836.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/17/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	110	J
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	77	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	120	J
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

NW 10/4/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-39 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82427 Mod. Ref No : _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-006

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10051730.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/17/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	390	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	390	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	390	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

NW 10/4/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-39 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82427 Mod Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-006

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10051730.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/17/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	77	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

NEJ 10/4/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-23 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82427 Mod. Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-007

Sample wt/vol: 30.13 (g/mL):g Lab File ID: 10051731.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	42	
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	370	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	370	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	370	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

NW 10/4/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-23 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82427 Mod Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-007

Sample wt/vol: 30.13 (g/mL):g Lab File ID: 10051731.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/17/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	75	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

NW 10/4/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-23 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82427 Mod Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-008

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10051732.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/17/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	390	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	390	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	390	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

NEJ 10/4/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-23 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82427 Mod Ref No : _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-008

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10051732.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	77	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine KW 10/4/10 SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-16 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82431 Mod. Ref No : _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-009

Sample wt/vol: 30.12 (g/mL): g Lab File ID: 10051747.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/17/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	180	U	
208-96-8	Acenaphthylene	180	U	
120-12-7	Anthracene	180	U	
56-55-3	Benzo(a)anthracene	110	J	
50-32-8	Benzo(a)pyrene	110		J
205-99-2	Benzo(b)fluoranthene	100	~~J~~	J
191-24-2	Benzo(g,h,i)perylene	180	~~U~~	UJ
207-08-9	Benzo(k)fluoranthene	180	~~U~~	UJ
111-44-4	bis(2-chloroethyl) ether	180	U	
108-60-1	bis(2-chloroisopropyl) ether	180	U	
117-81-7	bis(2-ethylhexyl) phthalate	180	U	
84-74-2	Di-n-butyl phthalate	360	U	
86-74-8	Carbazole	180	U	
106-47-8	4-Chloroaniline	360	U	
91-58-7	2-Chloronaphthalene	180	U	
95-57-8	2-Chlorophenol	180	U	
218-01-9	Chrysene	110	J	
53-70-3	Dibenz(a,h)Anthracene	25	~~U~~	UJ
132-64-9	Dibenzofuran	180	U	
95-50-1	1,2-Dichlorobenzene	180	U	
541-73-1	1,3-Dichlorobenzene	180	U	
106-46-7	1,4-Dichlorobenzene	180	U	
91-94-1	3,3-Dichlorobenzidine	180	U	
120-83-2	2,4-Dichlorophenol	180	U	
84-66-2	Diethyl phthalate	180	U	
105-67-9	2,4-Dimethylphenol	180	U	
51-28-5	2,4-Dinitrophenol	360	U	
121-14-2	2,4-Dinitrotoluene	180	U	
606-20-2	2,6-Dinitrotoluene	180	U	
206-44-0	Fluoranthene	200		
86-73-7	Fluorene	180	U	
118-74-1	Hexachlorobenzene	180	U	
87-68-3	Hexachlorobutadiene	180	U	
77-47-4	Hexachlorocyclopentadiene	180	U	

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-16 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82431 Mod. Ref No : _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-009

Sample wt/vol: 30.12 (g/mL):g Lab File ID: 10051747.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	92	~~J~~ J
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	71	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	160	J
108-95-2	Phenol	180	U
129-00-0	Pyrene	290	
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine

NW 10/4/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-16 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82427 Mod. Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-010

Sample wt/vol: 30.17 (g/mL):g Lab File ID: 10051733.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	380	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	380	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

NW 10/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-16 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82427 Mod. Ref No : _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-010

Sample wt/vol: 30.17 (g/mL): g Lab File ID: 10051733.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	75	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

NW 10/4/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-20 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82431 Mod Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-011

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10051742.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/17/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	110	J
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	210	
56-55-3	Benzo(a)anthracene	820	
50-32-8	Benzo(a)pyrene	790	
205-99-2	Benzo(b)fluoranthene	1,000	
191-24-2	Benzo(g,h,i)perylene	520	
207-08-9	Benzo(k)fluoranthene	730	
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	380	U
86-74-8	Carbazole	160	J
106-47-8	4-Chloroaniline	380	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	1,000	
53-70-3	Dibenz(a,h)Anthracene	72	
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	1,800	
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

lew 10/4/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-20 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82431 Mod Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-011

Sample wt/vol: 30.06 (g/mL):g Lab File ID: 10051742.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	600	
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	76	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	950	
108-95-2	Phenol	190	U
129-00-0	Pyrene	1,900	
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

MW 10/4/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-20 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82427 Mod. Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-012

Sample wt/vol: 30.15 (g/mL):g Lab File ID: 10051734.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
111-44-4	bis(2-chloroethyl) ether	180	U
108-60-1	bis(2-chloroisopropyl) ether	180	U
117-81-7	bis(2-ethylhexyl) phthalate	180	U
84-74-2	Di-n-butyl phthalate	370	U
86-74-8	Carbazole	180	U
106-47-8	4-Chloroaniline	370	U
91-58-7	2-Chloronaphthalene	180	U
95-57-8	2-Chlorophenol	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	180	U
95-50-1	1,2-Dichlorobenzene	180	U
541-73-1	1,3-Dichlorobenzene	180	U
106-46-7	1,4-Dichlorobenzene	180	U
91-94-1	3,3-Dichlorobenzidine	180	U
120-83-2	2,4-Dichlorophenol	180	U
84-66-2	Diethyl phthalate	180	U
105-67-9	2,4-Dimethylphenol	180	U
51-28-5	2,4-Dinitrophenol	370	U
121-14-2	2,4-Dinitrotoluene	180	U
606-20-2	2,6-Dinitrotoluene	180	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
118-74-1	Hexachlorobenzene	180	U
87-68-3	Hexachlorobutadiene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U

LW 10/4/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-20 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82427 Mod. Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-012

Sample wt/vol: 30.15 (g/mL): g Lab File ID: 10051734.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	74	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	180	U
108-95-2	Phenol	180	U
129-00-0	Pyrene	180	U
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine NW 10/4/10 SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-9 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82427 Mod. Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-013

Sample wt/vol: 30.07 (g/mL): g Lab File ID: 10051735.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	31	
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	370	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	370	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	370	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	100	J
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

NW 10/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-9 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82427 Mod Ref No : _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-013

Sample wt/vol: 30.07 (g/mL):g Lab File ID: 10051735.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/17/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	75	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	110	J
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

NW 10/4/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-9 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82427 Mod. Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-014

Sample wt/vol: 30.21 (g/mL): g Lab File ID: 10051736.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	25	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
111-44-4	bis(2-chloroethyl) ether	180	U
108-60-1	bis(2-chloroisopropyl) ether	180	U
117-81-7	bis(2-ethylhexyl) phthalate	180	U
84-74-2	Di-n-butyl phthalate	350	U
86-74-8	Carbazole	180	U
106-47-8	4-Chloroaniline	350	U
91-58-7	2-Chloronaphthalene	180	U
95-57-8	2-Chlorophenol	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	25	U
132-64-9	Dibenzofuran	180	U
95-50-1	1,2-Dichlorobenzene	180	U
541-73-1	1,3-Dichlorobenzene	180	U
106-46-7	1,4-Dichlorobenzene	180	U
91-94-1	3,3-Dichlorobenzidine	180	U
120-83-2	2,4-Dichlorophenol	180	U
84-66-2	Diethyl phthalate	180	U
105-67-9	2,4-Dimethylphenol	180	U
51-28-5	2,4-Dinitrophenol	350	U
121-14-2	2,4-Dinitrotoluene	180	U
606-20-2	2,6-Dinitrotoluene	180	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
118-74-1	Hexachlorobenzene	180	U
87-68-3	Hexachlorobutadiene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U

NW 10/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-9 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82427 Mod Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-014

Sample wt/vol: 30.21 (g/mL): g Lab File ID: 10051736.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	70	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	350	U
85-01-8	Phenanthrene	180	U
108-95-2	Phenol	180	U
129-00-0	Pyrene	180	U
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine NEJ 10/4/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-13 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82427 Mod Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-015

Sample wt/vol: 30.18 (g/mL): g Lab File ID: 10051737.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/17/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	25	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
111-44-4	bis(2-chloroethyl) ether	180	U
108-60-1	bis(2-chloroisopropyl) ether	180	U
117-81-7	bis(2-ethylhexyl) phthalate	180	U
84-74-2	Di-n-butyl phthalate	360	U
86-74-8	Carbazole	180	U
106-47-8	4-Chloroaniline	360	U
91-58-7	2-Chloronaphthalene	180	U
95-57-8	2-Chlorophenol	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	25	U
132-64-9	Dibenzofuran	180	U
95-50-1	1,2-Dichlorobenzene	180	U
541-73-1	1,3-Dichlorobenzene	180	U
106-46-7	1,4-Dichlorobenzene	180	U
91-94-1	3,3-Dichlorobenzidine	180	U
120-83-2	2,4-Dichlorophenol	180	U
84-66-2	Diethyl phthalate	180	U
105-67-9	2,4-Dimethylphenol	180	U
51-28-5	2,4-Dinitrophenol	360	U
121-14-2	2,4-Dinitrotoluene	180	U
606-20-2	2,6-Dinitrotoluene	180	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
118-74-1	Hexachlorobenzene	180	U
87-68-3	Hexachlorobutadiene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U

MJ 10/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-13 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82427 Mod Ref No : _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-015

Sample wt/vol: 30.18 (g/mL): g Lab File ID: 10051737.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	72	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	180	U
108-95-2	Phenol	180	U
129-00-0	Pyrene	180	U
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine

NW 10/4/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-13 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82431 Mod. Ref No : _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-016

Sample wt/vol: 30.14 (g/mL): g Lab File ID: 10051740.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 1 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	170	U
208-96-8	Acenaphthylene	170	U
120-12-7	Anthracene	170	U
56-55-3	Benzo(a)anthracene	170	U
50-32-8	Benzo(a)pyrene	23	U
205-99-2	Benzo(b)fluoranthene	170	U
191-24-2	Benzo(g,h,i)perylene	170	U
207-08-9	Benzo(k)fluoranthene	170	U
111-44-4	bis(2-chloroethyl) ether	170	U
108-60-1	bis(2-chloroisopropyl) ether	170	U
117-81-7	bis(2-ethylhexyl) phthalate	170	U
84-74-2	Di-n-butyl phthalate	340	U
86-74-8	Carbazole	170	U
106-47-8	4-Chloroaniline	340	U
91-58-7	2-Chloronaphthalene	170	U
95-57-8	2-Chlorophenol	170	U
218-01-9	Chrysene	170	U
53-70-3	Dibenz(a,h)Anthracene	23	U
132-64-9	Dibenzofuran	170	U
95-50-1	1,2-Dichlorobenzene	170	U
541-73-1	1,3-Dichlorobenzene	170	U
106-46-7	1,4-Dichlorobenzene	170	U
91-94-1	3,3-Dichlorobenzidine	170	U
120-83-2	2,4-Dichlorophenol	170	U
84-66-2	Diethyl phthalate	170	U
105-67-9	2,4-Dimethylphenol	170	U
51-28-5	2,4-Dinitrophenol	340	U
121-14-2	2,4-Dinitrotoluene	170	U
606-20-2	2,6-Dinitrotoluene	170	U
206-44-0	Fluoranthene	170	U
86-73-7	Fluorene	170	U
118-74-1	Hexachlorobenzene	170	U
87-68-3	Hexachlorobutadiene	170	U
77-47-4	Hexachlorocyclopentadiene	170	U

MW 10/4/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-13 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82431 Mod. Ref No : _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-016

Sample wt/vol: 30.14 (g/mL): g Lab File ID: 10051740.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 1 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	170	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	170	U
78-59-1	Isophorone	170	U
91-57-6	2-Methylnaphthalene	170	U
95-48-7	2-Methyl phenol	170	U
	3&4-Methylphenol	170	U
91-20-3	Naphthalene	170	U
98-95-3	Nitrobenzene	170	U
621-64-7	N-Nitrosodi-n-propyl amine	67	U
86-30-6	N-Nitrosodiphenylamine (1)	170	U
87-86-5	Pentachlorophenol	340	U
85-01-8	Phenanthrene	170	U
108-95-2	Phenol	170	U
129-00-0	Pyrene	170	U
103-23-1	Bis(2-ethylhexyl)adipate	170	U
120-82-1	1,2,4-Trichlorobenzene	170	U
88-06-2	2,4,6-Trichlorophenol	170	U
95-95-4	2,4,5-Trichlorophenol	170	U

(1) Cannot be separated from Diphenylamine MW 10/4/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-6 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82431 Mod. Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-017

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10051746.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/17/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	120	J
56-55-3	Benzo(a)anthracene	760	
50-32-8	Benzo(a)pyrene	780	J
205-99-2	Benzo(b)fluoranthene	740	J
191-24-2	Benzo(g,h,i)perylene	330	J
207-08-9	Benzo(k)fluoranthene	620	J
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	380	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	380	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	720	
53-70-3	Dibenz(a,h)Anthracene	54	J
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	1,100	
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

MW 10/4/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-6 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82431 Mod Ref No : _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-017

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10051746.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	410	J
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	76	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	480	
108-95-2	Phenol	190	U
129-00-0	Pyrene	1,300	
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine MW 10/4/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-6 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82431 Mod. Ref No : _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-018

Sample wt/vol: 30.15 (g/mL): g Lab File ID: 10051741.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
111-44-4	bis(2-chloroethyl) ether	180	U
108-60-1	bis(2-chloroisopropyl) ether	180	U
117-81-7	bis(2-ethylhexyl) phthalate	180	U
84-74-2	Di-n-butyl phthalate	360	U
86-74-8	Carbazole	180	U
106-47-8	4-Chloroaniline	360	U
91-58-7	2-Chloronaphthalene	180	U
95-57-8	2-Chlorophenol	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	180	U
95-50-1	1,2-Dichlorobenzene	180	U
541-73-1	1,3-Dichlorobenzene	180	U
106-46-7	1,4-Dichlorobenzene	180	U
91-94-1	3,3-Dichlorobenzidine	180	U
120-83-2	2,4-Dichlorophenol	180	U
84-66-2	Diethyl phthalate	180	U
105-67-9	2,4-Dimethylphenol	180	U
51-28-5	2,4-Dinitrophenol	360	U
121-14-2	2,4-Dinitrotoluene	180	U
606-20-2	2,6-Dinitrotoluene	180	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
118-74-1	Hexachlorobenzene	180	U
87-68-3	Hexachlorobutadiene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U

NW 10/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-6 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82431 Mod. Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-018

Sample wt/vol: 30.15 (g/mL):g Lab File ID: 10051741.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/17/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	73	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	180	U
108-95-2	Phenol	180	U
129-00-0	Pyrene	180	U
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine NEJ 10/4/10

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-25 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82431 Mod. Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-019

Sample wt/vol: 30.17 (g/mL):g Lab File ID: 10051745.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	170	U
208-96-8	Acenaphthylene	170	U
120-12-7	Anthracene	170	U
56-55-3	Benzo(a)anthracene	150	J
50-32-8	Benzo(a)pyrene	160	J
205-99-2	Benzo(b)fluoranthene	210	J
191-24-2	Benzo(g,h,i)perylene	99	J
207-08-9	Benzo(k)fluoranthene	160	J
111-44-4	bis(2-chloroethyl) ether	170	U
108-60-1	bis(2-chloroisopropyl) ether	170	U
117-81-7	bis(2-ethylhexyl) phthalate	170	U
84-74-2	Di-n-butyl phthalate	350	U
86-74-8	Carbazole	170	U
106-47-8	4-Chloroaniline	350	U
91-58-7	2-Chloronaphthalene	170	U
95-57-8	2-Chlorophenol	170	U
218-01-9	Chrysene	170	J
53-70-3	Dibenz(a,h)Anthracene	24	~~U~~ UJ
132-64-9	Dibenzofuran	170	U
95-50-1	1,2-Dichlorobenzene	170	U
541-73-1	1,3-Dichlorobenzene	170	U
106-46-7	1,4-Dichlorobenzene	170	U
91-94-1	3,3-Dichlorobenzidine	170	U
120-83-2	2,4-Dichlorophenol	170	U
84-66-2	Diethyl phthalate	170	U
105-67-9	2,4-Dimethylphenol	170	U
51-28-5	2,4-Dinitrophenol	350	U
121-14-2	2,4-Dinitrotoluene	170	U
606-20-2	2,6-Dinitrotoluene	170	U
206-44-0	Fluoranthene	240	
86-73-7	Fluorene	170	U
118-74-1	Hexachlorobenzene	170	U
87-68-3	Hexachlorobutadiene	170	U
77-47-4	Hexachlorocyclopentadiene	170	U

kw 10/4/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-25 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82431 Mod Ref No : _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-019

Sample wt/vol: 30.17 (g/mL): g Lab File ID: 10051745.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	170	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	100	~~J~~ J
78-59-1	Isophorone	170	U
91-57-6	2-Methylnaphthalene	170	U
95-48-7	2-Methyl phenol	170	U
	3&4-Methylphenol	170	U
91-20-3	Naphthalene	170	U
98-95-3	Nitrobenzene	170	U
621-64-7	N-Nitrosodi-n-propyl amine	70	U
86-30-6	N-Nitrosodiphenylamine (1)	170	U
87-86-5	Pentachlorophenol	350	U
85-01-8	Phenanthrene	120	J
108-95-2	Phenol	170	U
129-00-0	Pyrene	340	
103-23-1	Bis(2-ethylhexyl)adipate	170	U
120-82-1	1,2,4-Trichlorobenzene	170	U
88-06-2	2,4,6-Trichlorophenol	170	U
95-95-4	2,4,5-Trichlorophenol	170	U

(1) Cannot be separated from Diphenylamine MW 10/4/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-25 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82431 Mod. Ref No : _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-020

Sample wt/vol: 30.03 (g/mL): g Lab File ID: 10051743.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/17/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
111-44-4	bis(2-chloroethyl) ether	180	U
108-60-1	bis(2-chloroisopropyl) ether	180	U
117-81-7	bis(2-ethylhexyl) phthalate	180	U
84-74-2	Di-n-butyl phthalate	370	U
86-74-8	Carbazole	180	U
106-47-8	4-Chloroaniline	370	U
91-58-7	2-Chloronaphthalene	180	U
95-57-8	2-Chlorophenol	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	180	U
95-50-1	1,2-Dichlorobenzene	180	U
541-73-1	1,3-Dichlorobenzene	180	U
106-46-7	1,4-Dichlorobenzene	180	U
91-94-1	3,3-Dichlorobenzidine	180	U
120-83-2	2,4-Dichlorophenol	180	U
84-66-2	Diethyl phthalate	180	U
105-67-9	2,4-Dimethylphenol	180	U
51-28-5	2,4-Dinitrophenol	370	U
121-14-2	2,4-Dinitrotoluene	180	U
606-20-2	2,6-Dinitrotoluene	180	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
118-74-1	Hexachlorobenzene	180	U
87-68-3	Hexachlorobutadiene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U

MJ 10/4/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-25 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82431 Mod. Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-020

Sample wt/vol: 30.03 (g/mL): g Lab File ID: 10051743.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/17/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	73	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	180	U
108-95-2	Phenol	180	U
129-00-0	Pyrene	180	U
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine

KW 10/4/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-18 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82464 Mod Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-021

Sample wt/vol: 30.04 (g/mL): g Lab File ID: 10051809.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	25	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
111-44-4	bis(2-chloroethyl) ether	180	U
108-60-1	bis(2-chloroisopropyl) ether	180	U
117-81-7	bis(2-ethylhexyl) phthalate	180	U
84-74-2	Di-n-butyl phthalate	350	U
86-74-8	Carbazole	180	U
106-47-8	4-Chloroaniline	350	U
91-58-7	2-Chloronaphthalene	180	U
95-57-8	2-Chlorophenol	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	25	U
132-64-9	Dibenzofuran	180	U
95-50-1	1,2-Dichlorobenzene	180	U
541-73-1	1,3-Dichlorobenzene	180	U
106-46-7	1,4-Dichlorobenzene	180	U
91-94-1	3,3-Dichlorobenzidine	180	U
120-83-2	2,4-Dichlorophenol	180	U
84-66-2	Diethyl phthalate	180	U
105-67-9	2,4-Dimethylphenol	180	U
51-28-5	2,4-Dinitrophenol	350	U
121-14-2	2,4-Dinitrotoluene	180	U
606-20-2	2,6-Dinitrotoluene	180	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
118-74-1	Hexachlorobenzene	180	U
87-68-3	Hexachlorobutadiene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U

NW 10/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-18 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82464 Mod. Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-021

Sample wt/vol: 30.04 (g/mL):g Lab File ID: 10051809.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	70	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	350	U
85-01-8	Phenanthrene	180	U
108-95-2	Phenol	180	U
129-00-0	Pyrene	180	U
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine MW 10/4/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-18 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82464 Mod. Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-022

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10051808.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	25	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
111-44-4	bis(2-chloroethyl) ether	180	U
108-60-1	bis(2-chloroisopropyl) ether	180	U
117-81-7	bis(2-ethylhexyl) phthalate	180	U
84-74-2	Di-n-butyl phthalate	350	U
86-74-8	Carbazole	180	U
106-47-8	4-Chloroaniline	350	U
91-58-7	2-Chloronaphthalene	180	U
95-57-8	2-Chlorophenol	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	25	U
132-64-9	Dibenzofuran	180	U
95-50-1	1,2-Dichlorobenzene	180	U
541-73-1	1,3-Dichlorobenzene	180	U
106-46-7	1,4-Dichlorobenzene	180	U
91-94-1	3,3-Dichlorobenzidine	180	U
120-83-2	2,4-Dichlorophenol	180	U
84-66-2	Diethyl phthalate	180	U
105-67-9	2,4-Dimethylphenol	180	U
51-28-5	2,4-Dinitrophenol	350	U
121-14-2	2,4-Dinitrotoluene	180	U
606-20-2	2,6-Dinitrotoluene	180	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
118-74-1	Hexachlorobenzene	180	U
87-68-3	Hexachlorobutadiene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U

MW 10/4/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-18 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82464 Mod Ref No : _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-022

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10051808.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	71	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	350	U
85-01-8	Phenanthrene	180	U
108-95-2	Phenol	180	U
129-00-0	Pyrene	180	U
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine

MW 10/4/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-46 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82464 Mod Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-023

Sample wt/vol: 30.12 (g/mL): g Lab File ID: 10051819.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/18/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	25	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
111-44-4	bis(2-chloroethyl) ether	180	U
108-60-1	bis(2-chloroisopropyl) ether	180	U
117-81-7	bis(2-ethylhexyl) phthalate	180	U
84-74-2	Di-n-butyl phthalate	360	U
86-74-8	Carbazole	180	U
106-47-8	4-Chloroaniline	360	U
91-58-7	2-Chloronaphthalene	180	U
95-57-8	2-Chlorophenol	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	25	U
132-64-9	Dibenzofuran	180	U
95-50-1	1,2-Dichlorobenzene	180	U
541-73-1	1,3-Dichlorobenzene	180	U
106-46-7	1,4-Dichlorobenzene	180	U
91-94-1	3,3-Dichlorobenzidine	180	U
120-83-2	2,4-Dichlorophenol	180	U
84-66-2	Diethyl phthalate	180	U
105-67-9	2,4-Dimethylphenol	180	U
51-28-5	2,4-Dinitrophenol	360	U
121-14-2	2,4-Dinitrotoluene	180	U
606-20-2	2,6-Dinitrotoluene	180	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
118-74-1	Hexachlorobenzene	180	U
87-68-3	Hexachlorobutadiene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U

hw 10/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-46 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82464 Mod Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-023

Sample wt/vol: 30.12 (g/mL): g Lab File ID: 10051819.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	72	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	180	U
108-95-2	Phenol	180	U
129-00-0	Pyrene	180	U
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine

NW 10/4/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-46 / 2-4

Lab Name : PHASE SEPARATION SCIENCE — Contract: 1462309

Lab Code : PHASE — Case No.: 82464 — Mod Ref No.: _____ — SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL — Lab Sample Id: 10051312-024

Sample wt/vol: 30.08 (g/mL): g — Lab File ID: 10051820.D

Level: (LOW/MED) LOW — Extraction: (Type) SONC

% Moisture: 10 — Decanted: (Y/N) N — Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) — Date Extracted: 05/18/2010

Injection Volume: _____ (µL) — GPC Factor: 1.000 — Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N — pH: N/A — Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
111-44-4	bis(2-chloroethyl) ether	180	U
108-60-1	bis(2-chloroisopropyl) ether	180	U
117-81-7	bis(2-ethylhexyl) phthalate	180	U
84-74-2	Di-n-butyl phthalate	370	U
86-74-8	Carbazole	180	U
106-47-8	4-Chloroaniline	370	U
91-58-7	2-Chloronaphthalene	180	U
95-57-8	2-Chlorophenol	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	180	U
95-50-1	1,2-Dichlorobenzene	180	U
541-73-1	1,3-Dichlorobenzene	180	U
106-46-7	1,4-Dichlorobenzene	180	U
91-94-1	3,3-Dichlorobenzidine	180	U
120-83-2	2,4-Dichlorophenol	180	U
84-66-2	Diethyl phthalate	180	U
105-67-9	2,4-Dimethylphenol	180	U
51-28-5	2,4-Dinitrophenol	370	U
121-14-2	2,4-Dinitrotoluene	180	U
606-20-2	2,6-Dinitrotoluene	180	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
118-74-1	Hexachlorobenzene	180	U
87-68-3	Hexachlorobutadiene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U

KW 10/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-46 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82464 Mod. Ref No : _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-024

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10051820.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	74	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	180	U
108-95-2	Phenol	180	U
129-00-0	Pyrene	180	U
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine

NW 10/4/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-50 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82487 Mod Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-025

Sample wt/vol: 30.07 (g/mL): g Lab File ID: 10051929.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/18/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	1,800	U	
208-96-8	Acenaphthylene	1,800	U	
120-12-7	Anthracene	1,800	U	
56-55-3	Benzo(a)anthracene	1,500	J	
50-32-8	Benzo(a)pyrene	1,400		J
205-99-2	Benzo(b)fluoranthene	1,400	~~J~~	J
191-24-2	Benzo(g,h,i)perylene	1,800	~~U~~	UJ
207-08-9	Benzo(k)fluoranthene	1,300	~~J~~	J
111-44-4	bis(2-chloroethyl) ether	1,800	U	
108-60-1	bis(2-chloroisopropyl) ether	1,800	U	
117-81-7	bis(2-ethylhexyl) phthalate	1,800	U	
84-74-2	Di-n-butyl phthalate	3,500	U	
86-74-8	Carbazole	1,800	U	
106-47-8	4-Chloroaniline	3,500	U	
91-58-7	2-Chloronaphthalene	1,800	U	
95-57-8	2-Chlorophenol	1,800	U	
218-01-9	Chrysene	1,400	J	
53-70-3	Dibenz(a,h)Anthracene	250	~~U~~	UJ
132-64-9	Dibenzofuran	1,800	U	
95-50-1	1,2-Dichlorobenzene	1,800	U	
541-73-1	1,3-Dichlorobenzene	1,800	U	
106-46-7	1,4-Dichlorobenzene	1,800	U	
91-94-1	3,3-Dichlorobenzidine	1,800	U	
120-83-2	2,4-Dichlorophenol	1,800	U	
84-66-2	Diethyl phthalate	1,800	U	
105-67-9	2,4-Dimethylphenol	1,800	U	
51-28-5	2,4-Dinitrophenol	3,500	U	
121-14-2	2,4-Dinitrotoluene	1,800	U	
606-20-2	2,6-Dinitrotoluene	1,800	U	
206-44-0	Fluoranthene	3,000		
86-73-7	Fluorene	1,800	U	
118-74-1	Hexachlorobenzene	1,800	U	
87-68-3	Hexachlorobutadiene	1,800	U	
77-47-4	Hexachlorocyclopentadiene	1,800	U	

lw 10/4/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-50 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82487 Mod Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-025

Sample wt/vol: 30.07 (g/mL):g Lab File ID: 10051929.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/18/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	1,800	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	920	~~J~~ J
78-59-1	Isophorone	1,800	U
91-57-6	2-Methylnaphthalene	1,800	U
95-48-7	2-Methyl phenol	1,800	U
	3&4-Methylphenol	1,800	U
91-20-3	Naphthalene	1,800	U
98-95-3	Nitrobenzene	1,800	U
621-64-7	N-Nitrosodi-n-propyl amine	710	U
86-30-6	N-Nitrosodiphenylamine (1)	1,800	U
87-86-5	Pentachlorophenol	3,500	U
85-01-8	Phenanthrene	1,700	J
108-95-2	Phenol	1,800	U
129-00-0	Pyrene	3,200	
103-23-1	Bis(2-ethylhexyl)adipate	1,800	U
120-82-1	1,2,4-Trichlorobenzene	1,800	U
88-06-2	2,4,6-Trichlorophenol	1,800	U
95-95-4	2,4,5-Trichlorophenol	1,800	U

(1) Cannot be separated from Diphenylamine AW 10/4/10 SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-50 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82467 Mod. Ref No : _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-026

Sample wt/vol: 30.17 (g/mL): g Lab File ID: 10051826.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	140	J
50-32-8	Benzo(a)pyrene	120	
205-99-2	Benzo(b)fluoranthene	130	J
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	96	J
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	380	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	380	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	140	J
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	260	
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

KW 10/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-50 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82467 Mod Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-026

Sample wt/vol: 30.17 (g/mL): g Lab File ID: 10051826.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	75	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	260	
108-95-2	Phenol	190	U
129-00-0	Pyrene	260	
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

KW 10/4/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-48 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82487 Mod Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-027

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10051927.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	1,900	U
208-96-8	Acenaphthylene	1,900	U
120-12-7	Anthracene	1,900	U
56-55-3	Benzo(a)anthracene	1,900	U
50-32-8	Benzo(a)pyrene	260	~~U~~ UJ
205-99-2	Benzo(b)fluoranthene	1,900	~~U~~ ↓
191-24-2	Benzo(g,h,i)perylene	1,900	~~U~~ ↓
207-08-9	Benzo(k)fluoranthene	1,900	~~U~~ ↓
111-44-4	bis(2-chloroethyl) ether	1,900	U
108-60-1	bis(2-chloroisopropyl) ether	1,900	U
117-81-7	bis(2-ethylhexyl) phthalate	1,900	U
84-74-2	Di-n-butyl phthalate	3,800	U
86-74-8	Carbazole	1,900	U
106-47-8	4-Chloroaniline	3,800	U
91-58-7	2-Chloronaphthalene	1,900	U
95-57-8	2-Chlorophenol	1,900	U
218-01-9	Chrysene	1,900	U
53-70-3	Dibenz(a,h)Anthracene	260	~~U~~ UJ
132-64-9	Dibenzofuran	1,900	U
95-50-1	1,2-Dichlorobenzene	1,900	U
541-73-1	1,3-Dichlorobenzene	1,900	U
106-46-7	1,4-Dichlorobenzene	1,900	U
91-94-1	3,3-Dichlorobenzidine	1,900	U
120-83-2	2,4-Dichlorophenol	1,900	U
84-66-2	Diethyl phthalate	1,900	U
105-67-9	2,4-Dimethylphenol	1,900	U
51-28-5	2,4-Dinitrophenol	3,800	U
121-14-2	2,4-Dinitrotoluene	1,900	U
606-20-2	2,6-Dinitrotoluene	1,900	U
206-44-0	Fluoranthene	1,900	U
86-73-7	Fluorene	1,900	U
118-74-1	Hexachlorobenzene	1,900	U
87-68-3	Hexachlorobutadiene	1,900	U
77-47-4	Hexachlorocyclopentadiene	1,900	U

hw 10/4/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-48 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82487 Mod. Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-027

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10051927.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/18/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	1,900	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	1,900	~~U~~ UJ
78-59-1	Isophorone	1,900	U
91-57-6	2-Methylnaphthalene	1,900	U
95-48-7	2-Methyl phenol	1,900	U
	3&4-Methylphenol	1,900	U
91-20-3	Naphthalene	1,900	U
98-95-3	Nitrobenzene	1,900	U
621-64-7	N-Nitrosodi-n-propyl amine	760	U
86-30-6	N-Nitrosodiphenylamine (1)	1,900	U
87-86-5	Pentachlorophenol	3,800	U
85-01-8	Phenanthrene	1,900	U
108-95-2	Phenol	1,900	U
129-00-0	Pyrene	1,900	U
103-23-1	Bis(2-ethylhexyl)adipate	1,900	U
120-82-1	1,2,4-Trichlorobenzene	1,900	U
88-06-2	2,4,6-Trichlorophenol	1,900	U
95-95-4	2,4,5-Trichlorophenol	1,900	U

(1) Cannot be separated from Diphenylamine

MW 10/4/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-48 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82487 Mod. Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-028

Sample wt/vol: 30.02 (g/mL): g Lab File ID: 10051924.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	190	U	
208-96-8	Acenaphthylene	190	U	
120-12-7	Anthracene	190	U	
56-55-3	Benzo(a)anthracene	160	J	
50-32-8	Benzo(a)pyrene	150		J
205-99-2	Benzo(b)fluoranthene	150	~~J~~	J
191-24-2	Benzo(g,h,i)perylene	190	~~U~~	UJ
207-08-9	Benzo(k)fluoranthene	140	~~J~~	J
111-44-4	bis(2-chloroethyl) ether	190	U	
108-60-1	bis(2-chloroisopropyl) ether	190	U	
117-81-7	bis(2-ethylhexyl) phthalate	190	U	
84-74-2	Di-n-butyl phthalate	370	U	
86-74-8	Carbazole	190	U	
106-47-8	4-Chloroaniline	370	U	
91-58-7	2-Chloronaphthalene	190	U	
95-57-8	2-Chlorophenol	190	U	
218-01-9	Chrysene	160	J	
53-70-3	Dibenz(a,h)Anthracene	26	~~U~~	UJ
132-64-9	Dibenzofuran	190	U	
95-50-1	1,2-Dichlorobenzene	190	U	
541-73-1	1,3-Dichlorobenzene	190	U	
106-46-7	1,4-Dichlorobenzene	190	U	
91-94-1	3,3-Dichlorobenzidine	190	U	
120-83-2	2,4-Dichlorophenol	190	U	
84-66-2	Diethyl phthalate	190	U	
105-67-9	2,4-Dimethylphenol	190	U	
51-28-5	2,4-Dinitrophenol	370	U	
121-14-2	2,4-Dinitrotoluene	190	U	
606-20-2	2,6-Dinitrotoluene	190	U	
206-44-0	Fluoranthene	310		
86-73-7	Fluorene	190	U	
118-74-1	Hexachlorobenzene	190	U	
87-68-3	Hexachlorobutadiene	190	U	
77-47-4	Hexachlorocyclopentadiene	190	U	

NW 10/4/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-48 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82487 Mod Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-028

Sample wt/vol: 30.02 (g/mL): g Lab File ID: 10051924.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	~~U~~ UJ
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	75	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	260	
108-95-2	Phenol	190	U
129-00-0	Pyrene	340	
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

MW 10/4/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-49 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82467 Mod Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-029

Sample wt/vol: 30.14 (g/mL): g Lab File ID: 10051827.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/18/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	48	
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
111-44-4	bis(2-chloroethyl) ether	180	U
108-60-1	bis(2-chloroisopropyl) ether	180	U
117-81-7	bis(2-ethylhexyl) phthalate	180	U
84-74-2	Di-n-butyl phthalate	370	U
86-74-8	Carbazole	180	U
106-47-8	4-Chloroaniline	370	U
91-58-7	2-Chloronaphthalene	180	U
95-57-8	2-Chlorophenol	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	180	U
95-50-1	1,2-Dichlorobenzene	180	U
541-73-1	1,3-Dichlorobenzene	180	U
106-46-7	1,4-Dichlorobenzene	180	U
91-94-1	3,3-Dichlorobenzidine	180	U
120-83-2	2,4-Dichlorophenol	180	U
84-66-2	Diethyl phthalate	180	U
105-67-9	2,4-Dimethylphenol	180	U
51-28-5	2,4-Dinitrophenol	370	U
121-14-2	2,4-Dinitrotoluene	180	U
606-20-2	2,6-Dinitrotoluene	180	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
118-74-1	Hexachlorobenzene	180	U
87-68-3	Hexachlorobutadiene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U

NW 10/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-49 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82467 Mod. Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-029

Sample wt/vol: 30.14 (g/mL): g Lab File ID: 10051827.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	74	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	180	U
108-95-2	Phenol	180	U
129-00-0	Pyrene	180	U
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine

NW 10/4/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-49 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82467 Mod. Ref No : _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-030

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10051830.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/18/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	390	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	390	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	390	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

KH 10/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-49 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82467 Mod. Ref No : _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-030

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10051830.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	77	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

WW 10/4/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-42 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82467 Mod. Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-031

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10051832.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	83	
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
111-44-4	bis(2-chloroethyl) ether	180	U
108-60-1	bis(2-chloroisopropyl) ether	180	U
117-81-7	bis(2-ethylhexyl) phthalate	180	U
84-74-2	Di-n-butyl phthalate	370	U
86-74-8	Carbazole	180	U
106-47-8	4-Chloroaniline	370	U
91-58-7	2-Chloronaphthalene	180	U
95-57-8	2-Chlorophenol	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	180	U
95-50-1	1,2-Dichlorobenzene	180	U
541-73-1	1,3-Dichlorobenzene	180	U
106-46-7	1,4-Dichlorobenzene	180	U
91-94-1	3,3-Dichlorobenzidine	180	U
120-83-2	2,4-Dichlorophenol	180	U
84-66-2	Diethyl phthalate	180	U
105-67-9	2,4-Dimethylphenol	180	U
51-28-5	2,4-Dinitrophenol	370	U
121-14-2	2,4-Dinitrotoluene	180	U
606-20-2	2,6-Dinitrotoluene	180	U
206-44-0	Fluoranthene	150	J
86-73-7	Fluorene	180	U
118-74-1	Hexachlorobenzene	180	U
87-68-3	Hexachlorobutadiene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U

NW 10/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-42 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82467 Mod. Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-031

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10051832.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	73	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	98	J
108-95-2	Phenol	180	U
129-00-0	Pyrene	170	J
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine

MW 10/4/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-42 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82467 Mod. Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-032

Sample wt/vol: 30.07 (g/mL): g Lab File ID: 10051829.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	30	
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	380	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	380	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

MW 10/4/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-42 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82467 Mod Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-032

Sample wt/vol: 30.07 (g/mL): g Lab File ID: 10051829.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/18/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	76	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

hw 10/4/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-37 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82467 Mod Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-033

Sample wt/vol: 30.04 (g/mL): g Lab File ID: 10051833.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	100	J
50-32-8	Benzo(a)pyrene	95	
205-99-2	Benzo(b)fluoranthene	100	J
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
111-44-4	bis(2-chloroethyl) ether	180	U
108-60-1	bis(2-chloroisopropyl) ether	180	U
117-81-7	bis(2-ethylhexyl) phthalate	180	U
84-74-2	Di-n-butyl phthalate	360	U
86-74-8	Carbazole	180	U
106-47-8	4-Chloroaniline	360	U
91-58-7	2-Chloronaphthalene	180	U
95-57-8	2-Chlorophenol	180	U
218-01-9	Chrysene	100	J
53-70-3	Dibenz(a,h)Anthracene	25	U
132-64-9	Dibenzofuran	180	U
95-50-1	1,2-Dichlorobenzene	180	U
541-73-1	1,3-Dichlorobenzene	180	U
106-46-7	1,4-Dichlorobenzene	180	U
91-94-1	3,3-Dichlorobenzidine	180	U
120-83-2	2,4-Dichlorophenol	180	U
84-66-2	Diethyl phthalate	180	U
105-67-9	2,4-Dimethylphenol	180	U
51-28-5	2,4-Dinitrophenol	360	U
121-14-2	2,4-Dinitrotoluene	180	U
606-20-2	2,6-Dinitrotoluene	180	U
206-44-0	Fluoranthene	190	
86-73-7	Fluorene	180	U
118-74-1	Hexachlorobenzene	180	U
87-68-3	Hexachlorobutadiene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U

NW 10/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-37 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82467 Mod. Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-033

Sample wt/vol: 30.04 (g/mL): g Lab File ID: 10051833.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/18/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	72	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	130	J
108-95-2	Phenol	180	U
129-00-0	Pyrene	220	
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine

MW 10/4/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-37 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82467 Mod. Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-034

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10051831.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	28	
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	380	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	380	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

MW 10/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-37 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82467 Mod Ref No : _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-034

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10051831.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	76	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

Wd 10/4/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-30 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82487 Mod. Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-035

Sample wt/vol: 30.18 (g/mL):g Lab File ID: 10051928.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	1,800	U
208-96-8	Acenaphthylene	1,800	U
120-12-7	Anthracene	1,800	U
56-55-3	Benzo(a)anthracene	1,100	J
50-32-8	Benzo(a)pyrene	790	J
205-99-2	Benzo(b)fluoranthene	1,800	U UJ
191-24-2	Benzo(g,h,i)perylene	1,800	U
207-08-9	Benzo(k)fluoranthene	1,800	U
111-44-4	bis(2-chloroethyl) ether	1,800	U
108-60-1	bis(2-chloroisopropyl) ether	1,800	U
117-81-7	bis(2-ethylhexyl) phthalate	1,800	U
84-74-2	Di-n-butyl phthalate	3,600	U
86-74-8	Carbazole	1,800	U
106-47-8	4-Chloroaniline	3,600	U
91-58-7	2-Chloronaphthalene	1,800	U
95-57-8	2-Chlorophenol	1,800	U
218-01-9	Chrysene	1,100	J
53-70-3	Dibenz(a,h)Anthracene	250	U UJ
132-64-9	Dibenzofuran	1,800	U
95-50-1	1,2-Dichlorobenzene	1,800	U
541-73-1	1,3-Dichlorobenzene	1,800	U
106-46-7	1,4-Dichlorobenzene	1,800	U
91-94-1	3,3-Dichlorobenzidine	1,800	U
120-83-2	2,4-Dichlorophenol	1,800	U
84-66-2	Diethyl phthalate	1,800	U
105-67-9	2,4-Dimethylphenol	1,800	U
51-28-5	2,4-Dinitrophenol	3,600	U
121-14-2	2,4-Dinitrotoluene	1,800	U
606-20-2	2,6-Dinitrotoluene	1,800	U
206-44-0	Fluoranthene	1,900	
86-73-7	Fluorene	1,800	U
118-74-1	Hexachlorobenzene	1,800	U
87-68-3	Hexachlorobutadiene	1,800	U
77-47-4	Hexachlorocyclopentadiene	1,800	U

SW8270C

MW 10/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-30 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82487 Mod. Ref No : _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-035

Sample wt/vol: 30.18 (g/mL):g Lab File ID: 10051928.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	1,800	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	1,800	~~U~~ UJ
78-59-1	Isophorone	1,800	U
91-57-6	2-Methylnaphthalene	1,800	U
95-48-7	2-Methyl phenol	1,800	U
	3&4-Methylphenol	1,800	U
91-20-3	Naphthalene	1,800	U
98-95-3	Nitrobenzene	1,800	U
621-64-7	N-Nitrosodi-n-propyl amine	720	U
86-30-6	N-Nitrosodiphenylamine (1)	1,800	U
87-86-5	Pentachlorophenol	3,600	U
85-01-8	Phenanthrene	3,300	
108-95-2	Phenol	1,800	U
129-00-0	Pyrene	3,400	
103-23-1	Bis(2-ethylhexyl)adipate	1,800	U
120-82-1	1,2,4-Trichlorobenzene	1,800	U
88-06-2	2,4,6-Trichlorophenol	1,800	U
95-95-4	2,4,5-Trichlorophenol	1,800	U

(1) Cannot be separated from Diphenylamine

MW 10/4/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-30 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82467 Mod Ref No : _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-036

Sample wt/vol: 30.21 (g/mL): g Lab File ID: 10051828.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	370	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	370	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	370	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-30 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82467 Mod Ref No : _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-036

Sample wt/vol: 30.21 (g/mL): g Lab File ID: 10051828.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	74	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

MW 10/4/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-28 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82488 Mod Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-037

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10051906.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	47	
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	380	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	380	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	39	
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

KW 10/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-28 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82488 Mod. Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-037

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10051906.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	76	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

NW 10/4/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-28 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82467 Mod Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-038

Sample wt/vol: 30.12 (g/mL):g Lab File ID: 10051837.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/18/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	380	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	380	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

NW 10/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-28 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82467 Mod Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-038

Sample wt/vol: 30.12 (g/mL): g Lab File ID: 10051837.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	75	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

KEJ 10/4/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-34 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82464 Mod Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-039

Sample wt/vol: 30.04 (g/mL):g Lab File ID: 10051817.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	380	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	380	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

MW 10/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-34 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82464 Mod. Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-039

Sample wt/vol: 30.04 (g/mL):g Lab File ID: 10051817.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	76	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

ilw 10/4/10

SW8270C

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1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-3-34 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82464 Mod. Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-040

Sample wt/vol: 30.03 (g/mL):g Lab File ID: 10051815.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
111-44-4	bis(2-chloroethyl) ether	200	U
108-60-1	bis(2-chloroisopropyl) ether	200	U
117-81-7	bis(2-ethylhexyl) phthalate	200	U
84-74-2	Di-n-butyl phthalate	400	U
86-74-8	Carbazole	200	U
106-47-8	4-Chloroaniline	400	U
91-58-7	2-Chloronaphthalene	200	U
95-57-8	2-Chlorophenol	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
132-64-9	Dibenzofuran	200	U
95-50-1	1,2-Dichlorobenzene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
91-94-1	3,3-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	200	U
84-66-2	Diethyl phthalate	200	U
105-67-9	2,4-Dimethylphenol	200	U
51-28-5	2,4-Dinitrophenol	400	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
118-74-1	Hexachlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U

LW 10/4/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-34 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82464 Mod Ref No : _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-040

Sample wt/vol: 30.03 (g/mL): g Lab File ID: 10051815.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
78-59-1	Isophorone	200	U
91-57-6	2-Methylnaphthalene	200	U
95-48-7	2-Methyl phenol	200	U
	3&4-Methylphenol	200	U
91-20-3	Naphthalene	200	U
98-95-3	Nitrobenzene	200	U
621-64-7	N-Nitrosodi-n-propyl amine	79	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	200	U
108-95-2	Phenol	200	U
129-00-0	Pyrene	200	U
103-23-1	Bis(2-ethylhexyl)adipate	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U

(1) Cannot be separated from Diphenylamine

NW 10/14/10

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-29 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82487 Mod. Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-041

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10051931.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/18/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	180	U	
208-96-8	Acenaphthylene	180	U	
120-12-7	Anthracene	180	U	
56-55-3	Benzo(a)anthracene	110	~~J~~	J
50-32-8	Benzo(a)pyrene	130		
205-99-2	Benzo(b)fluoranthene	150	~~J~~	
191-24-2	Benzo(g,h,i)perylene	120	~~J~~	
207-08-9	Benzo(k)fluoranthene	180	~~U~~	UJ
111-44-4	bis(2-chloroethyl) ether	180	U	
108-60-1	bis(2-chloroisopropyl) ether	180	U	
117-81-7	bis(2-ethylhexyl) phthalate	180	~~U~~	UJ
84-74-2	Di-n-butyl phthalate	360	U	
86-74-8	Carbazole	180	U	
106-47-8	4-Chloroaniline	360	U	
91-58-7	2-Chloronaphthalene	180	U	
95-57-8	2-Chlorophenol	180	U	
218-01-9	Chrysene	110	~~J~~	J
53-70-3	Dibenz(a,h)Anthracene	25	~~U~~	UJ
132-64-9	Dibenzofuran	180	U	
95-50-1	1,2-Dichlorobenzene	180	U	
541-73-1	1,3-Dichlorobenzene	180	U	
106-46-7	1,4-Dichlorobenzene	180	U	
91-94-1	3,3-Dichlorobenzidine	180	~~U~~	UJ
120-83-2	2,4-Dichlorophenol	180	U	
84-66-2	Diethyl phthalate	180	U	
105-67-9	2,4-Dimethylphenol	180	U	
51-28-5	2,4-Dinitrophenol	360	U	
121-14-2	2,4-Dinitrotoluene	180	U	
606-20-2	2,6-Dinitrotoluene	180	U	
206-44-0	Fluoranthene	160	J	
86-73-7	Fluorene	180	U	
118-74-1	Hexachlorobenzene	180	U	
87-68-3	Hexachlorobutadiene	180	U	
77-47-4	Hexachlorocyclopentadiene	180	U	

hw 10/4/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-29 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82487 Mod Ref No : _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-041

Sample wt/vol: 30.08 (g/mL):g Lab File ID: 10051931.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	110	~~J~~ J
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	72	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	93	J
108-95-2	Phenol	180	U
129-00-0	Pyrene	290	J
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine

MW 10/4/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-29 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82487 Mod Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-042

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10051930.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	180	U	
208-96-8	Acenaphthylene	180	U	
120-12-7	Anthracene	180	U	
56-55-3	Benzo(a)anthracene	180	~~U~~	UJ
50-32-8	Benzo(a)pyrene	54		J
205-99-2	Benzo(b)fluoranthene	180	~~U~~	UJ
191-24-2	Benzo(g,h,i)perylene	180	~~U~~	UJ
207-08-9	Benzo(k)fluoranthene	180	~~U~~	UJ
111-44-4	bis(2-chloroethyl) ether	180	U	
108-60-1	bis(2-chloroisopropyl) ether	180	U	
117-81-7	bis(2-ethylhexyl) phthalate	180	~~U~~	UJ
84-74-2	Di-n-butyl phthalate	360	U	
86-74-8	Carbazole	180	U	
106-47-8	4-Chloroaniline	360	U	
91-58-7	2-Chloronaphthalene	180	U	
95-57-8	2-Chlorophenol	180	U	
218-01-9	Chrysene	180	~~U~~	UJ
53-70-3	Dibenz(a,h)Anthracene	25	~~U~~	UJ
132-64-9	Dibenzofuran	180	U	
95-50-1	1,2-Dichlorobenzene	180	U	
541-73-1	1,3-Dichlorobenzene	180	U	
106-46-7	1,4-Dichlorobenzene	180	U	
91-94-1	3,3-Dichlorobenzidine	180	~~U~~	UJ
120-83-2	2,4-Dichlorophenol	180	U	
84-66-2	Diethyl phthalate	180	U	
105-67-9	2,4-Dimethylphenol	180	U	
51-28-5	2,4-Dinitrophenol	360	U	
121-14-2	2,4-Dinitrotoluene	180	U	
606-20-2	2,6-Dinitrotoluene	180	U	
206-44-0	Fluoranthene	180	U	
86-73-7	Fluorene	180	U	
118-74-1	Hexachlorobenzene	180	U	
87-68-3	Hexachlorobutadiene	180	U	
77-47-4	Hexachlorocyclopentadiene	180	U	

KW 10/4/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-29 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82487 Mod Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-042

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10051930.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	~~U~~ UJ
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	71	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	180	U
108-95-2	Phenol	180	U
129-00-0	Pyrene	180	~~U~~ UJ
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine

MW 10/4/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-36 / 0-2 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82487 Mod Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-043

Sample wt/vol: 30.14 (g/mL): g Lab File ID: 10051923.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	26	~~U~~ UJ
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
111-44-4	bis(2-chloroethyl) ether	180	U
108-60-1	bis(2-chloroisopropyl) ether	180	U
117-81-7	bis(2-ethylhexyl) phthalate	180	U
84-74-2	Di-n-butyl phthalate	370	U
86-74-8	Carbazole	180	U
106-47-8	4-Chloroaniline	370	U
91-58-7	2-Chloronaphthalene	180	U
95-57-8	2-Chlorophenol	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	~~U~~ UJ
132-64-9	Dibenzofuran	180	U
95-50-1	1,2-Dichlorobenzene	180	U
541-73-1	1,3-Dichlorobenzene	180	U
106-46-7	1,4-Dichlorobenzene	180	U
91-94-1	3,3-Dichlorobenzidine	180	U
120-83-2	2,4-Dichlorophenol	180	U
84-66-2	Diethyl phthalate	180	U
105-67-9	2,4-Dimethylphenol	180	U
51-28-5	2,4-Dinitrophenol	370	U
121-14-2	2,4-Dinitrotoluene	180	U
606-20-2	2,6-Dinitrotoluene	180	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
118-74-1	Hexachlorobenzene	180	U
87-68-3	Hexachlorobutadiene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U

KW 10/4/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-36 / 0-2 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82487 Mod Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-043

Sample wt/vol: 30.14 (g/mL):g Lab File ID: 10051923.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	~~U~~ UJ
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	74	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	180	U
108-95-2	Phenol	180	U
129-00-0	Pyrene	180	U
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine

nw 10/4/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-36 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82487 Mod. Ref No : _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-044

Sample wt/vol: 30.04 (g/mL):g Lab File ID: 10051922.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	82	J
205-99-2	Benzo(b)fluoranthene	190	~~U~~ UJ
191-24-2	Benzo(g,h,i)perylene	190	~~U~~
207-08-9	Benzo(k)fluoranthene	190	~~U~~
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	380	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	380	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	~~U~~ UJ
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	140	J
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

MW 10/4/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-36 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82487 Mod. Ref No : _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-044

Sample wt/vol: 30.04 (g/mL):g Lab File ID: 10051922.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	~~U~~ UJ
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	76	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	150	J
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

NW 10/4/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-41 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82467 Mod. Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-045

Sample wt/vol: 30.01 (g/mL): g Lab File ID: 10051825.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	69	
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
111-44-4	bis(2-chloroethyl) ether	180	U
108-60-1	bis(2-chloroisopropyl) ether	180	U
117-81-7	bis(2-ethylhexyl) phthalate	180	U
84-74-2	Di-n-butyl phthalate	370	U
86-74-8	Carbazole	180	U
106-47-8	4-Chloroaniline	370	U
91-58-7	2-Chloronaphthalene	180	U
95-57-8	2-Chlorophenol	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	180	U
95-50-1	1,2-Dichlorobenzene	180	U
541-73-1	1,3-Dichlorobenzene	180	U
106-46-7	1,4-Dichlorobenzene	180	U
91-94-1	3,3-Dichlorobenzidine	180	U
120-83-2	2,4-Dichlorophenol	180	U
84-66-2	Diethyl phthalate	180	U
105-67-9	2,4-Dimethylphenol	180	U
51-28-5	2,4-Dinitrophenol	370	U
121-14-2	2,4-Dinitrotoluene	180	U
606-20-2	2,6-Dinitrotoluene	180	U
206-44-0	Fluoranthene	110	J
86-73-7	Fluorene	180	U
118-74-1	Hexachlorobenzene	180	U
87-68-3	Hexachlorobutadiene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U

SW8270C

ℓW 10/4/10

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1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-3-41 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82467 Mod Ref No : _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-045

Sample wt/vol: 30.01 (g/mL):g Lab File ID: 10051825.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/18/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	73	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	180	U
108-95-2	Phenol	180	U
129-00-0	Pyrene	120	J
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine

hw 10/4/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-41 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82488 Mod. Ref No : _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-046

Sample wt/vol: 30.12 (g/mL):g Lab File ID: 10051907.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	380	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	380	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

KW 10/4/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-41 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82488 Mod. Ref No : _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-046

Sample wt/vol: 30.12 (g/mL):g Lab File ID: 10051907.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	76	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

MW 10/4/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-40 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82487 Mod. Ref No : _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-047

Sample wt/vol: 30.09 (g/mL):g Lab File ID: 10051925.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	32	J
205-99-2	Benzo(b)fluoranthene	180	~~U~~ UJ
191-24-2	Benzo(g,h,i)perylene	180	~~U~~ ↓
207-08-9	Benzo(k)fluoranthene	180	~~U~~ ↓
111-44-4	bis(2-chloroethyl) ether	180	U
108-60-1	bis(2-chloroisopropyl) ether	180	U
117-81-7	bis(2-ethylhexyl) phthalate	180	U
84-74-2	Di-n-butyl phthalate	360	U
86-74-8	Carbazole	180	U
106-47-8	4-Chloroaniline	360	U
91-58-7	2-Chloronaphthalene	180	U
95-57-8	2-Chlorophenol	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	25	~~U~~ UJ
132-64-9	Dibenzofuran	180	U
95-50-1	1,2-Dichlorobenzene	180	U
541-73-1	1,3-Dichlorobenzene	180	U
106-46-7	1,4-Dichlorobenzene	180	U
91-94-1	3,3-Dichlorobenzidine	180	U
120-83-2	2,4-Dichlorophenol	180	U
84-66-2	Diethyl phthalate	180	U
105-67-9	2,4-Dimethylphenol	180	U
51-28-5	2,4-Dinitrophenol	360	U
121-14-2	2,4-Dinitrotoluene	180	U
606-20-2	2,6-Dinitrotoluene	180	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
118-74-1	Hexachlorobenzene	180	U
87-68-3	Hexachlorobutadiene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U

MW 10/4/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-40 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82487 Mod. Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-047

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10051925.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/18/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	~~U~~ UJ
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	72	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	180	U
108-95-2	Phenol	180	U
129-00-0	Pyrene	180	U
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

(1) Cannot be separated from Diphenylamine

SW8270C

MW 10/4/10

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-3-40 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82487 Mod. Ref No : _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-048

Sample wt/vol: 30.17 (g/mL): g Lab File ID: 10051910.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/18/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	390	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	390	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	390	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

SW8270C

AW 10/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-3-40 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82487 Mod. Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-048

Sample wt/vol: 30.17 (g/mL): g Lab File ID: 10051910.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	77	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

ewl 10/4/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
DUP AOC-3-02 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82464 Mod. Ref No : _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-049

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10051813.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	380	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	380	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

kw 10/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP AOC-3-02 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82464 Mod. Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-049

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10051813.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	77	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

LW 10/4/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
DUP AOC-3-03 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82487 Mod. Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-050

Sample wt/vol: 30.14 (g/mL):g Lab File ID: 10051911.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
111-44-4	bis(2-chloroethyl) ether	190	U
108-60-1	bis(2-chloroisopropyl) ether	190	U
117-81-7	bis(2-ethylhexyl) phthalate	190	U
84-74-2	Di-n-butyl phthalate	380	U
86-74-8	Carbazole	190	U
106-47-8	4-Chloroaniline	380	U
91-58-7	2-Chloronaphthalene	190	U
95-57-8	2-Chlorophenol	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
132-64-9	Dibenzofuran	190	U
95-50-1	1,2-Dichlorobenzene	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
91-94-1	3,3-Dichlorobenzidine	190	U
120-83-2	2,4-Dichlorophenol	190	U
84-66-2	Diethyl phthalate	190	U
105-67-9	2,4-Dimethylphenol	190	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
118-74-1	Hexachlorobenzene	190	U
87-68-3	Hexachlorobutadiene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U

lw 10/4/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
DUP AOC-3-03 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82487 Mod. Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-050

Sample wt/vol: 30.14 (g/mL): g Lab File ID: 10051911.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/18/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
78-59-1	Isophorone	190	U
91-57-6	2-Methylnaphthalene	190	U
95-48-7	2-Methyl phenol	190	U
	3&4-Methylphenol	190	U
91-20-3	Naphthalene	190	U
98-95-3	Nitrobenzene	190	U
621-64-7	N-Nitrosodi-n-propyl amine	75	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
108-95-2	Phenol	190	U
129-00-0	Pyrene	190	U
103-23-1	Bis(2-ethylhexyl)adipate	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U

(1) Cannot be separated from Diphenylamine

LW 10/4/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-2A-19 / 0-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82467 Mod Ref No : _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-052

Sample wt/vol: 30.01 (g/mL): g Lab File ID: 10051823.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

MW 10/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-19 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82464 Mod Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-053

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10051814.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/18/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	180	U
129-00-0	Pyrene	180	U

(1) Cannot be separated from Diphenylamine

NW 10/4/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-2A-28 / 0-1 (A)

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82464 Mod. Ref No.: _____ SDG No : 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-054

Sample wt/vol: 30.13 (g/mL):g Lab File ID: 10051816.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/18/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	180	U
129-00-0	Pyrene	180	U

NW 10/4/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
DUP-AOC-3-01 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82487 Mod. Ref No : _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-056

Sample wt/vol: 30.19 (g/mL): g Lab File ID: 10051926.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/18/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	180	U	
208-96-8	Acenaphthylene	180	U	
120-12-7	Anthracene	180	U	
56-55-3	Benzo(a)anthracene	110	J	
50-32-8	Benzo(a)pyrene	120		J
205-99-2	Benzo(b)fluoranthene	130	J	J
191-24-2	Benzo(g,h,i)perylene	180	U	UJ
207-08-9	Benzo(k)fluoranthene	120	J	J
111-44-4	bis(2-chloroethyl) ether	180	U	
108-60-1	bis(2-chloroisopropyl) ether	180	U	
117-81-7	bis(2-ethylhexyl) phthalate	180	U	
84-74-2	Di-n-butyl phthalate	350	U	
86-74-8	Carbazole	180	U	
106-47-8	4-Chloroaniline	350	U	
91-58-7	2-Chloronaphthalene	180	U	
95-57-8	2-Chlorophenol	180	U	
218-01-9	Chrysene	120	J	
53-70-3	Dibenz(a,h)Anthracene	25	~~U~~	UJ
132-64-9	Dibenzofuran	180	U	
95-50-1	1,2-Dichlorobenzene	180	U	
541-73-1	1,3-Dichlorobenzene	180	U	
106-46-7	1,4-Dichlorobenzene	180	U	
91-94-1	3,3-Dichlorobenzidine	180	U	
120-83-2	2,4-Dichlorophenol	180	U	
84-66-2	Diethyl phthalate	180	U	
105-67-9	2,4-Dimethylphenol	180	U	
51-28-5	2,4-Dinitrophenol	350	U	
121-14-2	2,4-Dinitrotoluene	180	U	
606-20-2	2,6-Dinitrotoluene	180	U	
206-44-0	Fluoranthene	210		
86-73-7	Fluorene	180	U	
118-74-1	Hexachlorobenzene	180	U	
87-68-3	Hexachlorobutadiene	180	U	
77-47-4	Hexachlorocyclopentadiene	180	U	

(1) Cannot be separated from Diphenylamine

KW 10/4/10

SW8270C

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1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO

DUP-AOC-3-01 / 0-2

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82487 Mod Ref No.: _____ SDG No.: 10051312

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051312-056

Sample wt/vol: 30.19 (g/mL):g Lab File ID: 10051926.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6 Decanted: (Y/N) N Date Received: 05/13/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/18/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
67-72-1	Hexachloroethane	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	~~U~~ UJ
78-59-1	Isophorone	180	U
91-57-6	2-Methylnaphthalene	180	U
95-48-7	2-Methyl phenol	180	U
	3&4-Methylphenol	180	U
91-20-3	Naphthalene	180	U
98-95-3	Nitrobenzene	180	U
621-64-7	N-Nitrosodi-n-propyl amine	70	U
86-30-6	N-Nitrosodiphenylamine (1)	180	U
87-86-5	Pentachlorophenol	350	U
85-01-8	Phenanthrene	91	J
108-95-2	Phenol	180	U
129-00-0	Pyrene	250	
103-23-1	Bis(2-ethylhexyl)adipate	180	U
120-82-1	1,2,4-Trichlorobenzene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U

MW 10/4/10

SW8270C

ENVIRONMENTAL
Data Services, Inc.

PCBs
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051312

Client: ARGO Systems, Glen Burnie, MD Date: October 4, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-3-11/0-2	10051312-001	Soil
2	AOC-3-4/0-2	10051312-003	Soil
3	AOC-3-39/0-2	10051312-005	Soil
3MS	AOC-3-39/0-2MS	10051312-005MS	Soil
3MSD	AOC-3-39/0-2MSD	10051312-005MSD	Soil
4	AOC-3-23/0-2	10051312-007	Soil
5	AOC-3-9/0-2	10051312-013	Soil
6	AOC-3-13/0-2	10051312-015	Soil
7	AOC-3-50/0-2	10051312-025	Soil
8	AOC-3-48/0-2	10051312-027	Soil
9	AOC-3-30/0-2	10051312-035	Soil
10	AOC-3-28/0-2	10051312-037	Soil
11	AOC-3-41/0-2	10051312-045	Soil
12	AOC-3-40/0-2	10051312-047	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days.

Initial Calibration - The initial calibrations exhibited acceptable %RSD values.

Calibration Verification - The continuing calibrations exhibited acceptable %D values.

Surrogates - All samples exhibited acceptable surrogate recoveries

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate samples were not analyzed.

Compound Identification - Retention times were acceptable and no further action was taken.

Compound Quantitation - No discrepancies were identified.

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-11 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No : 10051312

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051312-001

Sample wt/vol: 10.19 (g/mL): g Lab File ID: 10051716.D

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/14/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82414

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

lw
10/4/10

SW8082

2

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-4 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No. _____ SDG No.: 10051312

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051312-003

Sample wt/vol: 10.37 (g/mL): g Lab File ID: 10051718.D

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/14/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82414

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

lw
10/4/10

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-39 / 0-2 MS/MSD

3

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod Ref No _____ SDG No.: 10051312

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051312-005

Sample wt/vol: 10.21 (g/mL): g Lab File ID: 10051714.D

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/14/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82414

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

NW
10/4/10

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1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-23 / 0-2

4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No : 10051312

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051312-007

Sample wt/vol: 10.28 (g/mL): g Lab File ID: 10051719.D

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/14/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82398

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

MW
10/4/10

SW8082

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1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-9 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No : 10051312

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051312-013

Sample wt/vol: 10.18 (g/mL): g Lab File ID: 10051720.D

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/14/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82414

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

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10/4/10

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1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-13 / 0-2

6

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No. _____ SDG No : 10051312

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051312-015

Sample wt/vol: 10.22 (g/mL): g Lab File ID: 10051721.D

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/14/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82398

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

MW
10/4/10

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1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-50 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No : 10051312

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051312-025

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10051722.D

% Moisture: 6 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/14/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82414

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

NW
10/4/10

8

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-48 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051312

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051312-027

Sample wt/vol: 10.29 (g/mL): g Lab File ID: 10051723.D

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/14/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82398

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

NW
10/4/10

SW8082

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1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-30 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No : 10051312

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051312-035

Sample wt/vol: 10.34 (g/mL): g Lab File ID: 10051724.D

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/14/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82414

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

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10/4/10

SW8082

10

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-28 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No : 10051312

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051312-037

Sample wt/vol: 10.31 (g/mL): g Lab File ID: 10051725.D

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/14/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82398

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

NW
10/4/10

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1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-41 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No : 10051312

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051312-045

Sample wt/vol: 10.26 (g/mL): g Lab File ID: 10051726.D

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/14/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82414

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

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SW8082

12

1 H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-40 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No : 10051312

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051312-047

Sample wt/vol: 10.24 (g/mL): g Lab File ID: 10051728.D

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/14/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Acid Cleanup (Y/N): N

82414

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	PCB-1016	0.1	U
11104-28-2	PCB-1221	0.1	U
11141-16-5	PCB-1232	0.1	U
53469-21-9	PCB-1242	0.1	U
12672-29-6	PCB-1248	0.1	U
11097-69-1	PCB-1254	0.1	U
11096-82-5	PCB-1260	0.1	U

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10/4/10

SW8082

ENVIRONMENTAL
Data Services, Inc.

PESTICIDES

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051311

Client: ARGO Systems, Glen Burnie, MD Date: October 3, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-3-11/0-2	10051311-001	Soil
2	AOC-3-11/2-4	10051311-002	Soil
3	AOC-3-4/0-2	10051311-003	Soil
4	AOC-3-4/2-4	10051311-004	Soil
5	AOC-3-39/0-2	10051311-005	Soil
5MS	AOC-3-39/0-2MS	10051311-005MS	Soil
5MSD	AOC-3-39/0-2MSD	10051311-005MSD	Soil
6	AOC-3-39/2-4	10051311-006	Soil
7	AOC-3-23/0-2	10051311-007	Soil
8	AOC-3-23/2-4	10051311-008	Soil
9	AOC-3-16/0-2	10051311-009	Soil
10	AOC-3-16/2-4	10051311-010	Soil
11	AOC-3-20/0-2	10051311-011	Soil
12	AOC-3-20/2-4	10051311-012	Soil
13	AOC-3-9/0-2	10051311-013	Soil
14	AOC-3-9/2-4	10051311-014	Soil
15	AOC-3-13/0-2	10051311-015	Soil
16	AOC-3-13/2-4	10051311-016	Soil
17	AOC-3-6/0-2	10051311-017	Soil
18	AOC-3-6/2-4	10051311-018	Soil
19	AOC-3-25/0-2	10051311-019	Soil
20	AOC-3-25/2-4	10051311-020	Soil
21	AOC-3-18/0-2	10051311-021	Soil
21MS	AOC-3-18/0-2MS	10051311-021MS	Soil
21MSD	AOC-3-18/0-2MSD	10051311-021MSD	Soil
22	AOC-3-18/2-4	10051311-022	Soil
23	AOC-3-46/0-2	10051311-023	Soil
24	AOC-3-46/2-4	10051311-024	Soil
25	AOC-3-50/0-2	10051311-025	Soil
26	AOC-3-50/2-4	10051311-026	Soil
27	AOC-3-48/0-2	10051311-027	Soil
28	AOC-3-48/2-4	10051311-028	Soil
29	AOC-3-49/0-2	10051311-029	Soil
30	AOC-3-49/2-4	10051311-030	Soil
31	AOC-3-42/0-2	10051311-031	Soil

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
32	AOC-3-42/2-4	10051311-032	Soil
33	AOC-3-37/0-2	10051311-033	Soil
34	AOC-3-37/2-4	10051311-034	Soil
35	AOC-3-30/0-2	10051311-035	Soil
36	AOC-3-30/2-4	10051311-036	Soil
37	AOC-3-28/0-2	10051311-037	Soil
38	AOC-3-28/2-4	10051311-038	Soil
39	AOC-3-34/0-2	10051311-039	Soil
40	AOC-3-34/2-4	10051311-040	Soil
41	AOC-3-29/0-2	10051311-041	Soil
42	AOC-3-29/2-4	10051311-042	Soil
43	AOC-3-36/0-2	10051311-043	Soil
43MS	AOC-3-36/0-2MS	10051311-043MS	Soil
43MSD	AOC-3-36/0-2MSD	10051311-043MSD	Soil
44	AOC-3-36/2-4	10051311-044	Soil
45	AOC-3-41/0-2	10051311-045	Soil
46	AOC-3-41/2-4	10051311-046	Soil
47	AOC-3-40/0-2	10051311-047	Soil
48	AOC-3-40/2-4	10051311-048	Soil
49	DUP-AOC-3-02/2-4	10051311-049	Soil
50	DUP-AOC-3-03/2-4	10051311-050	Soil
51	DUP-AOC-3-04/2-4	10051311-051	Soil
52	AOC-2A-19/0-1	10051311-052	Soil
53	AOC-2A-19/2-4	10051311-053	Soil
54	AOC-2A-28/0-1(A)	10051311-054	Soil
55	DUP-AOC-3-01/0-2	10051311-056	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days.

Instrument performance - All 4,4'-DDT/endrin % breakdown, resolution check mixture and PEMs were within criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD values.

Calibration Verification - The continuing calibrations exhibited acceptable %D values except the following.

CCAL Date	Compound	%D	Qualifier	Affected Samples
05/18/10	Aldrin	27.1%	None	All ND
	Dieldrin	26.9%	None	All ND
05/20/10	Endrin	30.2%	None	All ND

Surrogates - All samples exhibited acceptable surrogate recoveries except the following.

Sample ID	Surrogate	%R	Qualifier
15	DCB1	148%	J- positives
38	DCB1	150%	None- ND
39	TCX1	140%	None- ND

MS/MSD - The MS/MSD samples exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier
5	4,4-DDT	76%/72%/OK	L/UL
21	4,4-DDE	148%/151%/OK	None- ND
43	4,4-DDD	196%/190%/OK	K
	4,4-DDT	65%/72%/OK	L/UL
	alpha-Chlordane	156%/164%/OK	None- ND
	Methoxychlor	130%/146%/OK	None- ND

Laboratory Control Sample - The LCS samples exhibited acceptable %R values except the following.

LCS ID	Compound	%R	Qualifier	Affected Samples
32848-1-BKS (Batch 82501)	4,4-DDE	153%	None	All ND
	alpha-Chlordane	136%	None	All ND
	beta-BHC	126%	None	All ND
	Dieldrin	140%	None	All ND
	Endosulfan I	136%	None	All ND
	Endosulfan II	159%	None	All ND
	Endosulfan sulfate	141%	None	All ND
	Endrin	134%	None	All ND
	Endrin aldehyde	149%	None	All ND
	Endrin ketone	142%	None	All ND
	gamma-Chlordane	149%	None	All ND
	Heptachlor epoxide	132%	None	All ND
	Methoxychlor	122%	None	All ND

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-3-39/2-4 ug/kg	DUP-AOC-3-02/2-4 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-3-40/2-4 ug/kg	DUP-AOC-3-03/2-4 ug/kg	RPD	Qualifier
alpha-Chlordane	17	12	34%	None

Compound	AOC-3-42/2-4 ug/kg	DUP-AOC-3-04/2-4 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	AOC-3-25/0-2 ug/kg	DUP-AOC-3-01/0-2 ug/kg	RPD	Qualifier
4,4-DDE	53	57	7%	None

Compound Identification - Retention times were acceptable and no further action was taken.

Compound Quantitation - EDS sample ID# 31 exhibited a high concentration of the compound 4,4-DDT that exceeded the calibration range and was flagged (E) by the laboratory. The laboratory did not reanalyze the sample at a dilution, so the reviewer has qualified the result as estimated (J).

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-11 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-001

Sample wt/vol: 10.19 (g/mL): g Lab File ID: 10052028.D

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/14/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82530

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

lw
10/3/10

SW8081B

2

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-11 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No : 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-002

Sample wt/vol: 10.42 (g/mL): g Lab File ID: 10051839.D

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/17/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82453

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	21	U
72-55-9	4,4-DDE	21	U
50-29-3	4,4-DDT	21	U
309-00-2	Aldrin	21	U
319-84-6	alpha-BHC	21	U
5103-71-9	alpha-Chlordane	21	U
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
60-57-1	Dieldrin	21	U
959-98-8	Endosulfan I	21	U
33213-65-9	Endosulfan II	21	U
1031-07-8	Endosulfan sulfate	21	U
72-20-8	Endrin	21	U
7421-93-4	Endrin aldehyde	21	U
53494-70-5	Endrin ketone	21	U
58-89-9	gamma-BHC (Lindane)	21	U
5103-74-2	gamma-Chlordane	21	U
76-44-8	Heptachlor	21	U
1024-57-3	Heptachlor epoxide	21	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	210	U

NW
10/3/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-4 / 0-2

3

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-003

Sample wt/vol: 10.37 (g/mL): g Lab File ID: 10052030.D

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/14/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82530

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

NW
10/3/10

SW8081B

4

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-4 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No : 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-004

Sample wt/vol: 10.26 (g/mL): g Lab File ID: 10051841.D

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/17/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82453

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	23	U
50-29-3	4,4-DDT	23	U
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U

NW
10/3/10

SW8081B

5

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-39 / 0-2 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-005

Sample wt/vol: 10.21 (g/mL): g Lab File ID: 10051931.D

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/14/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82501

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	23	U
50-29-3	4,4-DDT	23	~~U~~ UL
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U
57-74-9	Chlordane	230	U

hw
10/3/10

SW8081B

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-39 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No. _____ SDG No : 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-006

Sample wt/vol: 10.38 (g/mL): g Lab File ID: 10051851.D

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/17/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82453

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

MW
10/3/10

SW8081B

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-23 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-007

Sample wt/vol: 10.28 (g/mL): g Lab File ID: 10051933.D

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/14/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82501

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U
57-74-9	Chlordane	220	U

NW
10/31/10

SW8081B

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-23 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No : 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-008

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10051853.D

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/17/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82453

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	23	U
50-29-3	4,4-DDT	23	U
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U

NW
10/3/10

SW8081B

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-16 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-009

Sample wt/vol: 10.25 (g/mL): g Lab File ID: 10051918.D

% Moisture: 7 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/17/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 10.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82502

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	210	U
72-55-9	4,4-DDE	210	U
50-29-3	4,4-DDT	260	
309-00-2	Aldrin	210	U
319-84-6	alpha-BHC	210	U
5103-71-9	alpha-Chlordane	210	U
319-85-7	beta-BHC	210	U
319-86-8	delta-BHC	210	U
60-57-1	Dieldrin	210	U
959-98-8	Endosulfan I	210	U
33213-65-9	Endosulfan II	210	U
1031-07-8	Endosulfan sulfate	210	U
72-20-8	Endrin	210	U
7421-93-4	Endrin aldehyde	210	U
53494-70-5	Endrin ketone	210	U
58-89-9	gamma-BHC (Lindane)	210	U
5103-74-2	gamma-Chlordane	210	U
76-44-8	Heptachlor	210	U
1024-57-3	Heptachlor epoxide	210	U
72-43-5	Methoxychlor	210	U
8001-35-2	Toxaphene	2,100	U
57-74-9	Chlordane	2,100	U

NW
10/3/10

SW8081B

10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-16 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-010

Sample wt/vol: 10.19 (g/mL): g Lab File ID: 10051857.D

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/17/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82453

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

MW
10/3/10

SW8081B

11

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-20 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No. _____ SDG No : 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-011

Sample wt/vol: 10.25 (g/mL): g Lab File ID: 10051914.D

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/17/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82502

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	13	J
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U
57-74-9	Chlordane	220	U

NW
10/3/10

SW8081B

12

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-20 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-012

Sample wt/vol: 10.41 (g/mL): g Lab File ID: 10051861.D

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/17/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82453

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	21	U
72-55-9	4,4-DDE	21	U
50-29-3	4,4-DDT	21	U
309-00-2	Aldrin	21	U
319-84-6	alpha-BHC	21	U
5103-71-9	alpha-Chlordane	21	U
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
60-57-1	Dieldrin	21	U
959-98-8	Endosulfan I	21	U
33213-65-9	Endosulfan II	21	U
1031-07-8	Endosulfan sulfate	21	U
72-20-8	Endrin	21	U
7421-93-4	Endrin aldehyde	21	U
53494-70-5	Endrin ketone	21	U
58-89-9	gamma-BHC (Lindane)	21	U
5103-74-2	gamma-Chlordane	21	U
76-44-8	Heptachlor	21	U
1024-57-3	Heptachlor epoxide	21	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	210	U

MW
10/31/10

SW8081B

13

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-9 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-013

Sample wt/vol: 10.18 (g/mL): g Lab File ID: 10052032.D

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/14/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82530

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

Ned
10/3/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-9 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-014

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10051863.D

% Moisture: 6 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/17/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82453

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	21	U
72-55-9	4,4-DDE	21	U
50-29-3	4,4-DDT	21	U
309-00-2	Aldrin	21	U
319-84-6	alpha-BHC	21	U
5103-71-9	alpha-Chlordane	21	U
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
60-57-1	Dieldrin	21	U
959-98-8	Endosulfan I	21	U
33213-65-9	Endosulfan II	21	U
1031-07-8	Endosulfan sulfate	21	U
72-20-8	Endrin	21	U
7421-93-4	Endrin aldehyde	21	U
53494-70-5	Endrin ketone	21	U
58-89-9	gamma-BHC (Lindane)	21	U
5103-74-2	gamma-Chlordane	21	U
76-44-8	Heptachlor	21	U
1024-57-3	Heptachlor epoxide	21	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	210	U

NW
10/3/10

15

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-13 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-015

Sample wt/vol: 10.22 (g/mL): g Lab File ID: 10052034.D

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/14/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 5.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82530

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	110	U
72-55-9	4,4-DDE	59	~~Y~~ J
50-29-3	4,4-DDT	190	J
309-00-2	Aldrin	110	U
319-84-6	alpha-BHC	110	U
5103-71-9	alpha-Chlordane	110	U
319-85-7	beta-BHC	110	U
319-86-8	delta-BHC	110	U
60-57-1	Dieldrin	110	U
959-98-8	Endosulfan I	110	U
33213-65-9	Endosulfan II	110	U
1031-07-8	Endosulfan sulfate	110	U
72-20-8	Endrin	110	U
7421-93-4	Endrin aldehyde	110	U
53494-70-5	Endrin ketone	110	U
58-89-9	gamma-BHC (Lindane)	110	U
5103-74-2	gamma-Chlordane	110	U
76-44-8	Heptachlor	110	U
1024-57-3	Heptachlor epoxide	110	U
72-43-5	Methoxychlor	110	U
8001-35-2	Toxaphene	1,100	U

NW
10/3/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-13 / 2-4

Lab Name: PHASE SEPARATION SCIENCE
Contract: 1462309
Lab Code: PHASE
Case No.: _____
Mod. Ref No. _____
SDG No.: 10051311
Matrix (SOIL/SED/WATER): SOIL
Lab Sample Id: 10051311-016
Sample wt/vol: 10.27 (g/mL): g
Lab File ID: 10051865.D
% Moisture: 1
Decanted: (Y/N) N
Date Received: 05/13/2010
Extraction: (Type) SONC
Date Extracted: 05/17/2010
Concentrated Extract Volume: 10 (μ L)
Date Analyzed: 05/19/2010
Injection Volume: _____ (μ L)
GPC Factor: 1.000
Dilution Factor: 1.0
GPC Cleanup (Y/N): N
pH: _____
Sulfur Cleanup (Y/N): N

82453

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	20	U
72-55-9	4,4-DDE	20	U
50-29-3	4,4-DDT	20	U
309-00-2	Aldrin	20	U
319-84-6	alpha-BHC	20	U
5103-71-9	alpha-Chlordane	20	U
319-85-7	beta-BHC	20	U
319-86-8	delta-BHC	20	U
60-57-1	Dieldrin	20	U
959-98-8	Endosulfan I	20	U
33213-65-9	Endosulfan II	20	U
1031-07-8	Endosulfan sulfate	20	U
72-20-8	Endrin	20	U
7421-93-4	Endrin aldehyde	20	U
53494-70-5	Endrin ketone	20	U
58-89-9	gamma-BHC (Lindane)	20	U
5103-74-2	gamma-Chlordane	20	U
76-44-8	Heptachlor	20	U
1024-57-3	Heptachlor epoxide	20	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	200	U

nw
10/3/10

17

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-6 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod Ref No _____ SDG No : 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-017

Sample wt/vol: 10.19 (g/mL): g Lab File ID: 10051867.D

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/17/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82453

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	23	U
50-29-3	4,4-DDT	23	U
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U

NW
10/3/10

SW8081B

18

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-6 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-018

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10051869.D

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/17/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82453

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	21	U
72-55-9	4,4-DDE	21	U
50-29-3	4,4-DDT	21	U
309-00-2	Aldrin	21	U
319-84-6	alpha-BHC	21	U
5103-71-9	alpha-Chlordane	21	U
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
60-57-1	Dieldrin	21	U
959-98-8	Endosulfan I	21	U
33213-65-9	Endosulfan II	21	U
1031-07-8	Endosulfan sulfate	21	U
72-20-8	Endrin	21	U
7421-93-4	Endrin aldehyde	21	U
53494-70-5	Endrin ketone	21	U
58-89-9	gamma-BHC (Lindane)	21	U
5103-74-2	gamma-Chlordane	21	U
76-44-8	Heptachlor	21	U
1024-57-3	Heptachlor epoxide	21	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	210	U

10/3/10

SW8081B

19

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-25 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-019

Sample wt/vol: 10.25 (g/mL): g Lab File ID: 10051916.D

% Moisture: 5 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/17/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 5.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82502

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	100	U
72-55-9	4,4-DDE	53	J
50-29-3	4,4-DDT	100	U
309-00-2	Aldrin	100	U
319-84-6	alpha-BHC	100	U
5103-71-9	alpha-Chlordane	100	U
319-85-7	beta-BHC	100	U
319-86-8	delta-BHC	100	U
60-57-1	Dieldrin	100	U
959-98-8	Endosulfan I	100	U
33213-65-9	Endosulfan II	100	U
1031-07-8	Endosulfan sulfate	100	U
72-20-8	Endrin	100	U
7421-93-4	Endrin aldehyde	100	U
53494-70-5	Endrin ketone	100	U
58-89-9	gamma-BHC (Lindane)	100	U
5103-74-2	gamma-Chlordane	100	U
76-44-8	Heptachlor	100	U
1024-57-3	Heptachlor epoxide	100	U
72-43-5	Methoxychlor	100	U
8001-35-2	Toxaphene	1,000	U
57-74-9	Chlordane	1,000	U

AW
10/3/10

SW8081B

20

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-25 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-020

Sample wt/vol: 10.33 (g/mL): g Lab File ID: 10051872.D

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/17/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82451

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	21	U
72-55-9	4,4-DDE	21	U
50-29-3	4,4-DDT	21	U
309-00-2	Aldrin	21	U
319-84-6	alpha-BHC	21	U
5103-71-9	alpha-Chlordane	21	U
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
60-57-1	Dieldrin	21	U
959-98-8	Endosulfan I	21	U
33213-65-9	Endosulfan II	21	U
1031-07-8	Endosulfan sulfate	21	U
72-20-8	Endrin	21	U
7421-93-4	Endrin aldehyde	21	U
53494-70-5	Endrin ketone	21	U
58-89-9	gamma-BHC (Lindane)	21	U
5103-74-2	gamma-Chlordane	21	U
76-44-8	Heptachlor	21	U
1024-57-3	Heptachlor epoxide	21	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	210	U

NW
10/3/10

SW8081B

21

1 G - FORM I PESI
ORGANICS ANALYSIS DATA SHEEI

EPA SAMPLE NO.
AOC-3-18 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No : 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-021

Sample wt/vol: 10.25 (g/mL): g Lab File ID: 10051946.D

% Moisture: 5 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/18/2010

Concentrated Extract Volume: 10 (μ L) Date Analyzed: 05/19/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82502

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	21	U
72-55-9	4,4-DDE	21	U
50-29-3	4,4-DDI	11	J
309-00-2	Aldrin	21	U
319-84-6	alpha-BHC	21	U
5103-71-9	alpha-Chlordane	21	U
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
60-57-1	Dieldrin	21	U
959-98-8	Endosulfan I	21	U
33213-65-9	Endosulfan II	21	U
1031-07-8	Endosulfan sulfate	21	U
72-20-8	Endrin	21	U
7421-93-4	Endrin aldehyde	21	U
53494-70-5	Endrin ketone	21	U
58-89-9	gamma-BHC (Lindane)	21	U
5103-74-2	gamma-Chlordane	21	U
76-44-8	Heptachlor	21	U
1024-57-3	Heptachlor epoxide	21	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	210	U
57-74-9	Chlordane	210	U

NW
10/3/10

SW8081B

22

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-18 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-022

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10051948.D

% Moisture: 6 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/18/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82502

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	21	U
72-55-9	4,4-DDE	21	U
50-29-3	4,4-DDT	21	U
309-00-2	Aldrin	21	U
319-84-6	alpha-BHC	21	U
5103-71-9	alpha-Chlordane	21	U
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
60-57-1	Dieldrin	21	U
959-98-8	Endosulfan I	21	U
33213-65-9	Endosulfan II	21	U
1031-07-8	Endosulfan sulfate	21	U
72-20-8	Endrin	21	U
7421-93-4	Endrin aldehyde	21	U
53494-70-5	Endrin ketone	21	U
58-89-9	gamma-BHC (Lindane)	21	U
5103-74-2	gamma-Chlordane	21	U
76-44-8	Heptachlor	21	U
1024-57-3	Heptachlor epoxide	21	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	210	U
57-74-9	Chlordane	210	U

nw
10/3/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-46 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-023

Sample wt/vol: 10.29 (g/mL): g Lab File ID: 10051950.D

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/18/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82502

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	21	U
72-55-9	4,4-DDE	21	U
50-29-3	4,4-DDT	21	U
309-00-2	Aldrin	21	U
319-84-6	alpha-BHC	21	U
5103-71-9	alpha-Chlordane	21	U
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
60-57-1	Dieldrin	21	U
959-98-8	Endosulfan I	21	U
33213-65-9	Endosulfan II	21	U
1031-07-8	Endosulfan sulfate	21	U
72-20-8	Endrin	21	U
7421-93-4	Endrin aldehyde	21	U
53494-70-5	Endrin ketone	21	U
58-89-9	gamma-BHC (Lindane)	21	U
5103-74-2	gamma-Chlordane	21	U
76-44-8	Heptachlor	21	U
1024-57-3	Heptachlor epoxide	21	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	210	U
57-74-9	Chlordane	210	U

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10/3/10

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-46 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No : 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-024

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10051952.D

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/18/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82502

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U
57-74-9	Chlordane	220	U

RW
10/3/10

SW8081B

25

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-50 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-025

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10052044.D

% Moisture: 6 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/14/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 5.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82530

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	100	U
72-55-9	4,4-DDE	100	U
50-29-3	4,4-DDT	77	J
309-00-2	Aldrin	100	U
319-84-6	alpha-BHC	100	U
5103-71-9	alpha-Chlordane	100	U
319-85-7	beta-BHC	100	U
319-86-8	delta-BHC	100	U
60-57-1	Dieldrin	100	U
959-98-8	Endosulfan I	100	U
33213-65-9	Endosulfan II	100	U
1031-07-8	Endosulfan sulfate	100	U
72-20-8	Endrin	100	U
7421-93-4	Endrin aldehyde	100	U
53494-70-5	Endrin ketone	100	U
58-89-9	gamma-BHC (Lindane)	100	U
5103-74-2	gamma-Chlordane	100	U
76-44-8	Heptachlor	100	U
1024-57-3	Heptachlor epoxide	100	U
72-43-5	Methoxychlor	100	U
8001-35-2	Toxaphene	1,000	U

NW
10/3/10

SW8081B

26

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-50 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No : 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-026

Sample wt/vol: 10.42 (g/mL): g Lab File ID: 10051954.D

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/18/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82502

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	13	J
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	38	
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U
57-74-9	Chlordane	220	U

RW 10/3/10

SW8081B

27

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-48 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-027

Sample wt/vol: 10.29 (g/mL): g Lab File ID: 10052046.D

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction: (Type) SONC Date Extracted: 05/14/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 05/20/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 5.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82530

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	59	J
72-55-9	4,4-DDE	110	U
50-29-3	4,4-DDT	81	J
309-00-2	Aldrin	110	U
319-84-6	alpha-BHC	110	U
5103-71-9	alpha-Chlordane	110	U
319-85-7	beta-BHC	110	U
319-86-8	delta-BHC	110	U
60-57-1	Dieldrin	110	U
959-98-8	Endosulfan I	110	U
33213-65-9	Endosulfan II	110	U
1031-07-8	Endosulfan sulfate	110	U
72-20-8	Endrin	110	U
7421-93-4	Endrin aldehyde	110	U
53494-70-5	Endrin ketone	110	U
58-89-9	gamma-BHC (Lindane)	110	U
5103-74-2	gamma-Chlordane	110	U
76-44-8	Heptachlor	110	U
1024-57-3	Heptachlor epoxide	110	U
72-43-5	Methoxychlor	110	U
8001-35-2	Toxaphene	1,100	U

NW
10/3/10

SW8081B

28

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-48 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No : 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-028

Sample wt/vol: 10.26 (g/mL): g Lab File ID: 10051956.D

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/18/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 5.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82502

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	110	
72-55-9	4,4-DDE	110	U
50-29-3	4,4-DDT	260	E
309-00-2	Aldrin	110	U
319-84-6	alpha-BHC	110	U
5103-71-9	alpha-Chlordane	110	U
319-85-7	beta-BHC	110	U
319-86-8	delta-BHC	110	U
60-57-1	Dieldrin	110	U
959-98-8	Endosulfan I	110	U
33213-65-9	Endosulfan II	110	U
1031-07-8	Endosulfan sulfate	110	U
72-20-8	Endrin	110	U
7421-93-4	Endrin aldehyde	110	U
53494-70-5	Endrin ketone	110	U
58-89-9	gamma-BHC (Lindane)	110	U
5103-74-2	gamma-Chlordane	110	U
76-44-8	Heptachlor	110	U
1024-57-3	Heptachlor epoxide	110	U
72-43-5	Methoxychlor	110	U
8001-35-2	Toxaphene	1,100	U
57-74-9	Chlordane	1,100	U

Kel
10/3/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-49 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod Ref No _____ SDG No : 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-029

Sample wt/vol: 10.19 (g/mL): g Lab File ID: 10051958.D

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/18/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82502

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	11	J
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U
57-74-9	Chlordane	220	U

lw
10/3/10

30

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-49 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-030

Sample wt/vol: 10.15 (g/mL): g Lab File ID: 10051960.D

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction: (Type) SONC Date Extracted: 05/18/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82502

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	23	U
50-29-3	4,4-DDT	23	U
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U
57-74-9	Chlordane	230	U

NW
10/3/10

SW8081B

31

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-42 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-031

Sample wt/vol: 10.29 (g/mL): g Lab File ID: 10051962.D

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/18/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82502

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	32	
72-55-9	4,4-DDE	24	
50-29-3	4,4-DDT	55	~~E~~ J
309-00-2	Aldrin	21	U
319-84-6	alpha-BHC	21	U
5103-71-9	alpha-Chlordane	36	
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
60-57-1	Dieldrin	21	U
959-98-8	Endosulfan I	21	U
33213-65-9	Endosulfan II	21	U
1031-07-8	Endosulfan sulfate	21	U
72-20-8	Endrin	21	U
7421-93-4	Endrin aldehyde	21	U
53494-70-5	Endrin ketone	21	U
58-89-9	gamma-BHC (Lindane)	21	U
5103-74-2	gamma-Chlordane	32	
76-44-8	Heptachlor	21	U
1024-57-3	Heptachlor epoxide	21	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	210	U
57-74-9	Chlordane	210	U

NW
10/31/10

SW8081B

32

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-42 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No : 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-032

Sample wt/vol: 10.16 (g/mL): g Lab File ID: 10052056.D

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/18/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82530

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

NW
10/3/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-37 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-033

Sample wt/vol: 10.44 (g/mL): g Lab File ID: 10052065.D

% Moisture: 7 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/18/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82532

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	27	
72-55-9	4,4-DDE	17	J
50-29-3	4,4-DDT	19	J
309-00-2	Aldrin	21	U
319-84-6	alpha-BHC	21	U
5103-71-9	alpha-Chlordane	21	U
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
60-57-1	Dieldrin	21	U
959-98-8	Endosulfan I	21	U
33213-65-9	Endosulfan II	21	U
1031-07-8	Endosulfan sulfate	21	U
72-20-8	Endrin	21	U
7421-93-4	Endrin aldehyde	21	U
53494-70-5	Endrin ketone	21	U
58-89-9	gamma-BHC (Lindane)	21	U
5103-74-2	gamma-Chlordane	21	U
76-44-8	Heptachlor	21	U
1024-57-3	Heptachlor epoxide	21	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	210	U

lw
10/3/10

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-37 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No : 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-034

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10052058.D

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/18/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 5.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82530

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	120	
72-55-9	4,4-DDE	110	U
50-29-3	4,4-DDT	110	U
309-00-2	Aldrin	110	U
319-84-6	alpha-BHC	110	U
5103-71-9	alpha-Chlordane	110	U
319-85-7	beta-BHC	110	U
319-86-8	delta-BHC	110	U
60-57-1	Dieldrin	110	U
959-98-8	Endosulfan I	110	U
33213-65-9	Endosulfan II	110	U
1031-07-8	Endosulfan sulfate	110	U
72-20-8	Endrin	110	U
7421-93-4	Endrin aldehyde	110	U
53494-70-5	Endrin ketone	110	U
58-89-9	gamma-BHC (Lindane)	110	U
5103-74-2	gamma-Chlordane	110	U
76-44-8	Heptachlor	110	U
1024-57-3	Heptachlor epoxide	110	U
72-43-5	Methoxychlor	110	U
8001-35-2	Toxaphene	1,100	U

LW
10/3/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-30 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-035

Sample wt/vol: 10.34 (g/mL): g Lab File ID: 10052048.D

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/14/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 5.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82530

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	110	
72-55-9	4,4-DDE	53	J
50-29-3	4,4-DDT	60	J
309-00-2	Aldrin	110	U
319-84-6	alpha-BHC	110	U
5103-71-9	alpha-Chlordane	110	U
319-85-7	beta-BHC	110	U
319-86-8	delta-BHC	110	U
60-57-1	Dieldrin	110	U
959-98-8	Endosulfan I	110	U
33213-65-9	Endosulfan II	110	U
1031-07-8	Endosulfan sulfate	110	U
72-20-8	Endrin	110	U
7421-93-4	Endrin aldehyde	110	U
53494-70-5	Endrin ketone	110	U
58-89-9	gamma-BHC (Lindane)	110	U
5103-74-2	gamma-Chlordane	110	U
76-44-8	Heptachlor	110	U
1024-57-3	Heptachlor epoxide	110	U
72-43-5	Methoxychlor	110	U
8001-35-2	Toxaphene	1,100	U

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10/3/10

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-30 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-036

Sample wt/vol: 10.28 (g/mL): g Lab File ID: 10051966.D

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/18/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82502

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U
57-74-9	Chlordane	220	U

MW
10/3/10

SW8081B

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-28 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No : 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-037

Sample wt/vol: 10.31 (g/mL): g Lab File ID: 10052050.D

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/14/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82530

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

MW
10/3/10

SW8081B

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-28 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-038

Sample wt/vol: 10.27 (g/mL): g Lab File ID: 10052060.D

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/18/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82530

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

hw
10/3/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-34 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-039

Sample wt/vol: 10.26 (g/mL): g Lab File ID: 10051968.D

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction: (Type) SONC Date Extracted: 05/18/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82502

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U
57-74-9	Chlordane	220	U

MW
10/3/10

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-34 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-040

Sample wt/vol: 10.23 (g/mL): g Lab File ID: 10052064.D

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction: (Type) SONC Date Extracted: 05/18/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82530

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	23	U
50-29-3	4,4-DDT	23	U
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U

MW
10/3/10

SW8081B

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-29 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-041

Sample wt/vol: 10.35 (g/mL): g Lab File ID: 10052063.D

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/18/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82532

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	
72-55-9	4,4-DDE	16	J
50-29-3	4,4-DDT	11	J
309-00-2	Aldrin	21	U
319-84-6	alpha-BHC	21	U
5103-71-9	alpha-Chlordane	21	U
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
60-57-1	Dieldrin	21	U
959-98-8	Endosulfan I	21	U
33213-65-9	Endosulfan II	21	U
1031-07-8	Endosulfan sulfate	21	U
72-20-8	Endrin	21	U
7421-93-4	Endrin aldehyde	21	U
53494-70-5	Endrin ketone	21	U
58-89-9	gamma-BHC (Lindane)	21	U
5103-74-2	gamma-Chlordane	21	U
76-44-8	Heptachlor	21	U
1024-57-3	Heptachlor epoxide	21	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	210	U

lw
10/3/10

SW8081B

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-29 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-042

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10052062.D

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/18/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 5.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82530

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	110	U
72-55-9	4,4-DDE	110	U
50-29-3	4,4-DDT	110	U
309-00-2	Aldrin	110	U
319-84-6	alpha-BHC	110	U
5103-71-9	alpha-Chlordane	110	U
319-85-7	beta-BHC	110	U
319-86-8	delta-BHC	110	U
60-57-1	Dieldrin	110	U
959-98-8	Endosulfan I	110	U
33213-65-9	Endosulfan II	110	U
1031-07-8	Endosulfan sulfate	110	U
72-20-8	Endrin	110	U
7421-93-4	Endrin aldehyde	110	U
53494-70-5	Endrin ketone	110	U
58-89-9	gamma-BHC (Lindane)	110	U
5103-74-2	gamma-Chlordane	110	U
76-44-8	Heptachlor	110	U
1024-57-3	Heptachlor epoxide	110	U
72-43-5	Methoxychlor	110	U
8001-35-2	Toxaphene	1,100	U

NW
10/3/10

SW8081B

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-36 / 0-2 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-043

Sample wt/vol: 10.21 (g/mL): g Lab File ID: 10051926.D

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/17/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82502

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	34	K
72-55-9	4,4-DDE	11	J
50-29-3	4,4-DDT	38	L
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U
57-74-9	Chlordane	220	U

RW
10/3/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 44
AOC-3-36 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-044

Sample wt/vol: 10.27 (g/mL): g Lab File ID: 10051972.D

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/18/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82502

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	57	E
72-55-9	4,4-DDE	31	
50-29-3	4,4-DDT	66	E
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U
57-74-9	Chlordane	220	U

MW
10/3/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 45
AOC-3-41 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-045

Sample wt/vol: 10.26 (g/mL): g Lab File ID: 10052052.D

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/14/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 10.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82530

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	120	J
72-55-9	4,4-DDE	210	U
50-29-3	4,4-DDT	190	J
309-00-2	Aldrin	210	U
319-84-6	alpha-BHC	210	U
5103-71-9	alpha-Chlordane	210	U
319-85-7	beta-BHC	210	U
319-86-8	delta-BHC	210	U
60-57-1	Dieldrin	210	U
959-98-8	Endosulfan I	210	U
33213-65-9	Endosulfan II	210	U
1031-07-8	Endosulfan sulfate	210	U
72-20-8	Endrin	210	U
7421-93-4	Endrin aldehyde	210	U
53494-70-5	Endrin ketone	210	U
58-89-9	gamma-BHC (Lindane)	210	U
5103-74-2	gamma-Chlordane	210	U
76-44-8	Heptachlor	210	U
1024-57-3	Heptachlor epoxide	210	U
72-43-5	Methoxychlor	210	U
8001-35-2	Toxaphene	2,100	U

NW
10/3/10

SW8081B

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-41 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-046

Sample wt/vol: 10.31 (g/mL): g Lab File ID: 10051974.D

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/18/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82502

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U
57-74-9	Chlordane	220	U

NW
10/3/10

SW8081B

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-40 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-047

Sample wt/vol: 10.24 (g/mL): g Lab File ID: 10052054.D

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/14/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82530

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	45	E
72-55-9	4,4-DDE	19	J
50-29-3	4,4-DDT	30	
309-00-2	Aldrin	21	U
319-84-6	alpha-BHC	21	U
5103-71-9	alpha-Chlordane	14	J
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
60-57-1	Dieldrin	21	U
959-98-8	Endosulfan I	21	U
33213-65-9	Endosulfan II	21	U
1031-07-8	Endosulfan sulfate	21	U
72-20-8	Endrin	21	U
7421-93-4	Endrin aldehyde	21	U
53494-70-5	Endrin ketone	21	U
58-89-9	gamma-BHC (Lindane)	21	U
5103-74-2	gamma-Chlordane	21	U
76-44-8	Heptachlor	21	U
1024-57-3	Heptachlor epoxide	21	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	210	U

MW
10/3/10

SW8081B

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-40 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-048

Sample wt/vol: 10.23 (g/mL): g Lab File ID: 10052010.D

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/19/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82530

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	23	U
50-29-3	4,4-DDT	23	U
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	17	J
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U

dw
10/3/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP AOC-3-02 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No : 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-049

Sample wt/vol: 10.35 (g/mL): g Lab File ID: 10052012.D

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/19/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82530

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

MW
10/3/10

50

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP AOC-3-03 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-050

Sample wt/vol: 10.31 (g/mL): g Lab File ID: 10052014.D

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/19/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82530

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	12	J
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

NJ
10/3/10

SW8081B

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP AOC-3-04 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No _____ SDG No : 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-051

Sample wt/vol: 10.24 (g/mL): g Lab File ID: 10052016.D

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/19/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82530

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

MW
10/3/10

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 52
AOC-2A-19 / 0-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-052

Sample wt/vol: 10.34 (g/mL): g Lab File ID: 10052018.D

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction: (Type) SONC Date Extracted: 05/19/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 05/20/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82530

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

NW
10/3/10

SW8081B

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-19 / 2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-053

Sample wt/vol: 10.29 (g/mL): g Lab File ID: 10052020.D

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/19/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82530

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	21	U
72-55-9	4,4-DDE	21	U
50-29-3	4,4-DDT	21	U
309-00-2	Aldrin	21	U
319-84-6	alpha-BHC	21	U
5103-71-9	alpha-Chlordane	21	U
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
60-57-1	Dieldrin	21	U
959-98-8	Endosulfan I	21	U
33213-65-9	Endosulfan II	21	U
1031-07-8	Endosulfan sulfate	21	U
72-20-8	Endrin	21	U
7421-93-4	Endrin aldehyde	21	U
53494-70-5	Endrin ketone	21	U
58-89-9	gamma-BHC (Lindane)	21	U
5103-74-2	gamma-Chlordane	21	U
76-44-8	Heptachlor	21	U
1024-57-3	Heptachlor epoxide	21	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	210	U

NW
10/3/10

SW8081B

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-28 / 0-1 (A)

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-054

Sample wt/vol: 10.31 (g/mL): g Lab File ID: 10052022.D

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/19/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82530

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	21	U
72-55-9	4,4-DDE	21	U
50-29-3	4,4-DDT	21	U
309-00-2	Aldrin	21	U
319-84-6	alpha-BHC	21	U
5103-71-9	alpha-Chlordane	21	U
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
60-57-1	Dieldrin	21	U
959-98-8	Endosulfan I	21	U
33213-65-9	Endosulfan II	21	U
1031-07-8	Endosulfan sulfate	21	U
72-20-8	Endrin	21	U
7421-93-4	Endrin aldehyde	21	U
53494-70-5	Endrin ketone	21	U
58-89-9	gamma-BHC (Lindane)	21	U
5103-74-2	gamma-Chlordane	21	U
76-44-8	Heptachlor	21	U
1024-57-3	Heptachlor epoxide	21	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	210	U

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10/3/10

SW8081B

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1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP AOC-3-01 / 0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051311

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051311-056

Sample wt/vol: 10.28 (g/mL): g Lab File ID: 10052024.D

% Moisture: 6 Decanted: (Y/N) N Date Received: 05/13/2010

Extraction : (Type) SONC Date Extracted: 05/19/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 05/20/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 5.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82530

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	100	U
72-55-9	4,4-DDE	57	J
50-29-3	4,4-DDT	100	U
309-00-2	Aldrin	100	U
319-84-6	alpha-BHC	100	U
5103-71-9	alpha-Chlordane	100	U
319-85-7	beta-BHC	100	U
319-86-8	delta-BHC	100	U
60-57-1	Dieldrin	100	U
959-98-8	Endosulfan I	100	U
33213-65-9	Endosulfan II	100	U
1031-07-8	Endosulfan sulfate	100	U
72-20-8	Endrin	100	U
7421-93-4	Endrin aldehyde	100	U
53494-70-5	Endrin ketone	100	U
58-89-9	gamma-BHC (Lindane)	100	U
5103-74-2	gamma-Chlordane	100	U
76-44-8	Heptachlor	100	U
1024-57-3	Heptachlor epoxide	100	U
72-43-5	Methoxychlor	100	U
8001-35-2	Toxaphene	1,000	U

MW
10/3/10

SW8081B

ENVIRONMENTAL
Data Services, Inc.

VOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051310

Client: ARGO Systems, Glen Burnie, MD Date: October 11, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-3-37/0-2	10051310-001	Soil
2	AOC-3-11/0-2	10051310-002	Soil
3	AOC-3-25/0-2	10051310-003	Soil
4	AOC-3-13/0-2	10051310-004	Soil
5	AOC-3-48/0-2	10051310-005	Soil
6	AOC-3-42/0-2	10051310-006	Soil
7	DUP-AOC-3-05/0-2	10051310-007	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for soil samples.

GC/MS Tuning - All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values except the following.

ICAL Date	Compound	%RSD/RRF	Qualifier	Affected Samples
05/07/10	4-Methyl-2-pentanone	0.044 RRF	L/R	All samples

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

CCAL Date	Compound	%RSD/RRF	Qualifier	Affected Samples
05/14/10 (1019)	4-Methyl-2-pentanone	0.045 RRF	None	See ICAL

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Trip, Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-3-42/0-2 ug/kg	DUP-AOC-3-05/0-2 ug/kg	RPD	Qualifier
Acetone	32	33	3%	None

Tentatively Identified Compounds (TICs) - TICs were not reported with this data package.

Compound Quantitation - No discrepancies were identified.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-37/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82387 Mod Ref No: _____ SDG No.: 10051310

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051310-001

Sample wt/vol 4.64 (g/mL) g Lab File ID: 10051416

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2010

% Moisture: not dec. 6 Date Analyzed: 05/14/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	6	U
75-01-4	Vinyl Chloride	6	U
74-83-9	Bromomethane	6	U
75-00-3	Chloroethane	6	U
67-64-1	Acetone	23	U
75-35-4	1,1-Dichloroethene	6	U
75-09-2	Methylene Chloride	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
1634-04-4	Methyl-t-butyl ether	6	U
75-34-3	1,1-Dichloroethane	6	U
78-93-3	2-Butanone	23	U
156-59-2	cis-1,2-Dichloroethene	6	U
67-66-3	Chloroform	6	U
71-55-6	1,1,1-Trichloroethane	6	U
107-06-2	1,2-Dichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
71-43-2	Benzene	6	U
78-87-5	1,2-Dichloropropane	6	U
75-15-0	Carbon Disulfide	11	U
79-01-6	Trichloroethene	6	U
75-27-4	Bromodichloromethane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-Pentanone	23	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U
108-88-3	Toluene	6	U

NW
10/11/10

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-37/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82387 Mod. Ref No.: _____ SDG No. : 10051310

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051310-001

Sample wt/vol 4.64 (g/mL) g Lab File ID: 10051416

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2010

% Moisture: not dec 6 Date Analyzed: 05/14/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	11	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	46	U

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10/11/10

SW8260B

2

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-11/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82387 Mod Ref No: _____ SDG No.: 10051310

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051310-002

Sample wt/vol 5.83 (g/mL) g Lab File ID: 10051417

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2010

% Moisture: not dec. 12 Date Analyzed: 05/14/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
67-64-1	Acetone	37	
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl-t-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	19	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-15-0	Carbon Disulfide	10	U
79-01-6	Trichloroethene	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-Pentanone	19	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
108-88-3	Toluene	5	U

hw
10/11/10

SW8260B

2

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-11/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82387 Mod. Ref. No.: _____ SDG No.: 10051310

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051310-002

Sample wt/vol 5.83 (g/mL) g Lab File ID: 10051417

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2010

% Moisture: not dec 12 Date Analyzed: 05/14/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	10	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	39	U

kw 10/11/10

SW8260B

3

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-25/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82387 Mod Ref. No.: _____ SDG No. : 10051310

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051310-003

Sample wt/vol 5.67 (g/mL) g Lab File ID: 10051418

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2010

% Moisture: not dec. 5 Date Analyzed: 05/14/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
67-64-1	Acetone	19	U
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl-t-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	19	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-15-0	Carbon Disulfide	9	U
79-01-6	Trichloroethene	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-Pentanone	19	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
108-88-3	Toluene	5	U

NW 10/01/10

SW8260B

3

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-25/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82387 Mod. Ref. No.: _____ SDG No.: 10051310

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051310-003

Sample wt/vol 5.67 (g/mL) g Lab File ID: 10051418

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2010

% Moisture: not dec. 5 Date Analyzed: 05/14/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	9	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	37	U

NW 10/11/10

SW8260B

4

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC-3-13/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82387 Mod. Ref. No.: _____ SDG No: 10051310

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051310-004

Sample wt/vol 6.10 (g/mL) g Lab File ID: 10051419

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2010

% Moisture: not dec. 9 Date Analyzed: 05/14/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
67-64-1	Acetone	35	
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl-t-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	18	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-15-0	Carbon Disulfide	9	U
79-01-6	Trichloroethene	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-Pentanone	18	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
108-88-3	Toluene	5	U

MW 10/11/10

SW8260B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-13/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82387 Mod Ref. No.: _____ SDG No: 10051310

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051310-004

Sample wt/vol 6.10 (g/mL) g Lab File ID: 10051419

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2010

% Moisture: not dec. 9 Date Analyzed: 05/14/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylenes	9	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
95-47-6	o-Xylene	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	36	U

MW 10/11/10

SW8260B

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-48/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82387 Mod Ref. No.: _____ SDG No: 10051310

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051310-005

Sample wt/vol 6.10 (g/mL) g Lab File ID: 10051420

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2010

% Moisture: not dec 8 Date Analyzed: 05/14/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	4	U
75-01-4	Vinyl Chloride	4	U
74-83-9	Bromomethane	4	U
75-00-3	Chloroethane	4	U
67-64-1	Acetone	18	U
75-35-4	1,1-Dichloroethene	4	U
75-09-2	Methylene Chloride	4	U
156-60-5	trans-1,2-Dichloroethene	4	U
1634-04-4	Methyl-t-butyl ether	4	U
75-34-3	1,1-Dichloroethane	4	U
78-93-3	2-Butanone	18	U
156-59-2	cis-1,2-Dichloroethene	4	U
67-66-3	Chloroform	4	U
71-55-6	1,1,1-Trichloroethane	4	U
107-06-2	1,2-Dichloroethane	4	U
56-23-5	Carbon Tetrachloride	4	U
71-43-2	Benzene	4	U
78-87-5	1,2-Dichloropropane	4	U
75-15-0	Carbon Disulfide	15	
79-01-6	Trichloroethene	4	U
75-27-4	Bromodichloromethane	4	U
10061-01-5	cis-1,3-Dichloropropene	4	U
108-10-1	4-Methyl-2-Pentanone	18	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	4	U
79-00-5	1,1,2-Trichloroethane	4	U
108-88-3	Toluene	4	U

NW 10/11/10

SW8260B

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-48/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : 82387 Mod Ref. No.: _____ SDG No : 10051310

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051310-005

Sample wt/vol 6.10 (g/mL) g Lab File ID: 10051420

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2010

% Moisture: not dec. 8 Date Analyzed: 05/14/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	4	U
124-48-1	Dibromochloromethane	4	U
75-25-2	Bromoform	4	U
127-18-4	Tetrachloroethene	4	U
108-90-7	Chlorobenzene	4	U
100-41-4	Ethylbenzene	4	U
108-38-3	m,p-Xylenes	9	U
100-42-5	Styrene	4	U
79-34-5	1,1,2,2-Tetrachloroethane	4	U
95-47-6	o-Xylene	4	U
98-82-8	Isopropylbenzene	4	U
103-65-1	n-Propylbenzene	4	U
108-67-8	1,3,5-Trimethylbenzene	4	U
95-63-6	1,2,4-Trimethylbenzene	4	U
104-51-8	n-Butylbenzene	4	U
96-12-8	1,2-Dibromo-3-Chloropropane	36	U

hw 10/11/10

SW8260B

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-42/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82387 Mod. Ref. No: _____ SDG No.: 10051310

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051310-006

Sample wt/vol 4.22 (g/mL) g Lab File ID: 10051421

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2010

% Moisture: not dec. 9 Date Analyzed: 05/14/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	7	U
75-01-4	Vinyl Chloride	7	U
74-83-9	Bromomethane	7	U
75-00-3	Chloroethane	7	U
67-64-1	Acetone	32	
75-35-4	1,1-Dichloroethene	7	U
75-09-2	Methylene Chloride	7	U
156-60-5	trans-1,2-Dichloroethene	7	U
1634-04-4	Methyl-t-butyl ether	7	U
75-34-3	1,1-Dichloroethane	7	U
78-93-3	2-Butanone	26	U
156-59-2	cis-1,2-Dichloroethene	7	U
67-66-3	Chloroform	7	U
71-55-6	1,1,1-Trichloroethane	7	U
107-06-2	1,2-Dichloroethane	7	U
56-23-5	Carbon Tetrachloride	7	U
71-43-2	Benzene	7	U
78-87-5	1,2-Dichloropropane	7	U
75-15-0	Carbon Disulfide	13	U
79-01-6	Trichloroethene	7	U
75-27-4	Bromodichloromethane	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
108-10-1	4-Methyl-2-Pentanone	26	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	7	U
79-00-5	1,1,2-Trichloroethane	7	U
108-88-3	Toluene	7	U

MW 10/11/10

SW8260B

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-3-42/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82387 Mod Ref. No.: _____ SDG No.: 10051310

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051310-006

Sample wt/vol 4.22 (g/mL) g Lab File ID: 10051421

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2010

% Moisture: not dec 9 Date Analyzed: 05/14/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	7	U
124-48-1	Dibromochloromethane	7	U
75-25-2	Bromoform	7	U
127-18-4	Tetrachloroethene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
108-38-3	m,p-Xylenes	13	U
100-42-5	Styrene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U
95-47-6	o-Xylene	7	U
98-82-8	Isopropylbenzene	7	U
103-65-1	n-Propylbenzene	7	U
108-67-8	1,3,5-Trimethylbenzene	7	U
95-63-6	1,2,4-Trimethylbenzene	7	U
104-51-8	n-Butylbenzene	7	U
96-12-8	1,2-Dibromo-3-Chloropropane	52	U

NW 10/11/10

SW8260B

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-3-05/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: 82387 Mod. Ref. No.: _____ SDG No.: 10051310

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051310-007

Sample wt/vol 4.57 (g/mL) g Lab File ID: 10051422

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2010

% Moisture: not dec. 5 Date Analyzed: 05/14/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
74-87-3	Chloromethane	6	U
75-01-4	Vinyl Chloride	6	U
74-83-9	Bromomethane	6	U
75-00-3	Chloroethane	6	U
67-64-1	Acetone	33	
75-35-4	1,1-Dichloroethene	6	U
75-09-2	Methylene Chloride	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
1634-04-4	Methyl-t-butyl ether	6	U
75-34-3	1,1-Dichloroethane	6	U
78-93-3	2-Butanone	23	U
156-59-2	cis-1,2-Dichloroethene	6	U
67-66-3	Chloroform	6	U
71-55-6	1,1,1-Trichloroethane	6	U
107-06-2	1,2-Dichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
71-43-2	Benzene	6	U
78-87-5	1,2-Dichloropropane	6	U
75-15-0	Carbon Disulfide	12	U
79-01-6	Trichloroethene	6	U
75-27-4	Bromodichloromethane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-Pentanone	23	~~U~~ R
10061-02-6	trans-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U
108-88-3	Toluene	6	U

MW 10/11/10

SW8260B

7

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-3-05/0-2

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No. : 82387 Mod. Ref. No : _____ SDG No : 10051310

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 10051310-007

Sample wt/vol 4.57 (g/mL) g Lab File ID: 10051422

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2010

% Moisture: not dec. 5 Date Analyzed: 05/14/2010

GC Column: _____ ID: 1.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (µ L) Soil Aliquot Volume: _____ (µ L)

Purge Volume: 5.00 (m L)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/kg	Q
106-93-4	1,2-Dibromoethane	6	U
124-48-1	Dibromochloromethane	6	U
75-25-2	Bromoform	6	U
127-18-4	Tetrachloroethene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
108-38-3	m,p-Xylenes	12	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
95-47-6	o-Xylene	6	U
98-82-8	Isopropylbenzene	6	U
103-65-1	n-Propylbenzene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	46	U

MW 10/11/10

SW8260B

ENVIRONMENTAL
Data Services, Inc.

PESTICIDES

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051212

Client: ARGO Systems, Glen Burnie, MD Date: October 2, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-2A-21/0-1	10051212-001	Soil
2	AOC-2A-21/2-4	10051212-002	Soil
3	AOC-2A-27/0-1	10051212-003	Soil
4	AOC-2A-27/2-4	10051212-004	Soil
4MS	AOC-2A-27/2-4MS	10051212-004MS	Soil
4MSD	AOC-2A-27/2-4MSD	10051212-004MSD	Soil
5	AOC-2A-33/0-1	10051212-005	Soil
6	AOC-2A-33/2-4	10051212-006	Soil
7	AOC-2A-15/0-1	10051212-007	Soil
8	AOC-2A-15/2-4	10051212-008	Soil
9	AOC-2A-14/0-1	10051212-009	Soil
10	AOC-2A-14/2-4	10051212-010	Soil
11	AOC-2A-22/0-1	10051212-011	Soil
12	AOC-2A-22/2-4	10051212-012	Soil
13	AOC-2A-26/0-1	10051212-013	Soil
14	AOC-2A-26/2-4	10051212-014	Soil
15	AOC-2A-32/0-1	10051212-015	Soil
16	AOC-2A-32/2-4	10051212-016	Soil
17	AOC-2A-37/0-1	10051212-017	Soil
18	AOC-2A-37/2-4	10051212-018	Soil
19	AOC-2A-38/0-1	10051212-019	Soil
20	AOC-2A-38/2-4	10051212-020	Soil
21	AOC-2A-35/0-1	10051212-021	Soil
22	AOC-2A-35/2-4	10051212-022	Soil
23	AOC-2A-29/0-1	10051212-023	Soil
24	AOC-2A-29/2-4	10051212-024	Soil
25	DUP-AOC-2A-03/2-4	10051212-025	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days.

Instrument performance - All 4,4'-DDT/endrin % breakdown, resolution check mixture and PEMs were within criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD values.

Calibration Verification - The continuing calibrations exhibited acceptable %D values.

Surrogates - All samples exhibited acceptable surrogate recoveries except the following.

Sample ID	Surrogate	%R	Qualifier
16	DCB1	150%	None- ND
21	TCX1	0%	None- diluted out
	DCB1	0%	

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-2A-29/2-4 ug/kg	DUP-AOC-2A-03/2-4 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound Identification - Retention times were acceptable and no further action was taken.

Compound Quantitation - EDS sample ID# 19 was analyzed at a 2X dilution and exhibited a high concentration of the compound 4,4-DDE that exceeded the calibration range. The laboratory did not reanalyze the sample at a higher dilution, so the reviewer has flagged the result estimated (J).

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-21/0-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051212

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051212-001

Sample wt/vol: 10.21 (g/mL): g Lab File ID: 10051824.D

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/12/2010

Extraction: (Type) SONC Date Extracted: 05/15/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82451

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	23	U
50-29-3	4,4-DDT	23	U
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U

lew
10/2/10

SW8081B

2

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-21/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No: 10051212

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051212-002

Sample wt/vol: 10.25 (g/mL): g Lab File ID: 10051826.D

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/12/2010

Extraction: (Type) SONC Date Extracted: 05/15/2010

Concentrated Extract Volume: 10 (μ L) Date Analyzed: 05/18/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82451

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

NW
10/2/10

SW8081B

3

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-27/0-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod Ref No. _____ SDG No : 10051212

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051212-003

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10051909.D

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/12/2010

Extraction : (Type) SONC Date Extracted: 05/15/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 4.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82501

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	90	U
72-55-9	4,4-DDE	58	J
50-29-3	4,4-DDT	87	J
309-00-2	Aldrin	90	U
319-84-6	alpha-BHC	90	U
5103-71-9	alpha-Chlordane	90	U
319-85-7	beta-BHC	90	U
319-86-8	delta-BHC	90	U
60-57-1	Dieldrin	90	U
959-98-8	Endosulfan I	90	U
33213-65-9	Endosulfan II	90	U
1031-07-8	Endosulfan sulfate	90	U
72-20-8	Endrin	90	U
7421-93-4	Endrin aldehyde	90	U
53494-70-5	Endrin ketone	90	U
58-89-9	gamma-BHC (Lindane)	90	U
5103-74-2	gamma-Chlordane	90	U
76-44-8	Heptachlor	90	U
1024-57-3	Heptachlor epoxide	90	U
72-43-5	Methoxychlor	90	U
8001-35-2	Toxaphene	900	U

hw
10/2/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-27/2-4 MS/MSD

4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No.: 10051212

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051212-004

Sample wt/vol: 10.18 (g/mL): g Lab File ID: 10051822.D

% Moisture: 3 Decanted: (Y/N) N Date Received: 05/12/2010

Extraction : (Type) SONC Date Extracted: 05/15/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82451

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	20	U
72-55-9	4,4-DDE	20	U
50-29-3	4,4-DDT	20	U
309-00-2	Aldrin	20	U
319-84-6	alpha-BHC	20	U
5103-71-9	alpha-Chlordane	20	U
319-85-7	beta-BHC	20	U
319-86-8	delta-BHC	20	U
60-57-1	Dieldrin	20	U
959-98-8	Endosulfan I	20	U
33213-65-9	Endosulfan II	20	U
1031-07-8	Endosulfan sulfate	20	U
72-20-8	Endrin	20	U
7421-93-4	Endrin aldehyde	20	U
53494-70-5	Endrin ketone	20	U
58-89-9	gamma-BHC (Lindane)	20	U
5103-74-2	gamma-Chlordane	20	U
76-44-8	Heptachlor	20	U
1024-57-3	Heptachlor epoxide	20	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	200	U

MW
10/2/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-33/0-1

5

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051212

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051212-005

Sample wt/vol: 10.25 (g/mL): g Lab File ID: 10051832.D

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/12/2010

Extraction : (Type) SONC Date Extracted: 05/15/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82451

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	23	U
50-29-3	4,4-DDT	23	U
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U

hw
10/2/10

SW8081B

6

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-33/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No : 10051212

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051212-006

Sample wt/vol: 10.34 (g/mL): g Lab File ID: 10051834.D

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/12/2010

Extraction : (Type) SONC Date Extracted: 05/15/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82451

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

MW
10/2/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-15/0-1

7

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No : 10051212

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051212-007

Sample wt/vol: 10.18 (g/mL): g Lab File ID: 10051836.D

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/12/2010

Extraction : (Type) SONC Date Extracted: 05/15/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82451

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	23	U
50-29-3	4,4-DDT	23	U
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U

HW
10/2/10

SW8081B

8

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-15/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod Ref No. _____ SDG No.: 10051212

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051212-008

Sample wt/vol: 10.41 (g/mL): g Lab File ID: 10051838.D

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/12/2010

Extraction : (Type) SONC Date Extracted: 05/15/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82451

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDI	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

NW
10/2/10

SW8081B

9

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-14/0-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No: 10051212

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051212-009

Sample wt/vol: 10.25 (g/mL): g Lab File ID: 10051840.D

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/12/2010

Extraction: (Type) SONC Date Extracted: 05/15/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 05/18/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82451

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

hw
10/2/10

SW8081B

10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-14/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No. _____ SDG No.: 10051212

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051212-010

Sample wt/vol: 10.26 (g/mL): g Lab File ID: 10051842.D

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/12/2010

Extraction : (Type) SONC Date Extracted: 05/15/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82451

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

MW
10/2/10

SW8081B

11

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-22/0-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No.: 10051212

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051212-011

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10051911.D

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/12/2010

Extraction : (Type) SONC Date Extracted: 05/15/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 2.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82501

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	46	U
72-55-9	4,4-DDE	71	
50-29-3	4,4-DDT	65	
309-00-2	Aldrin	46	U
319-84-6	alpha-BHC	46	U
5103-71-9	alpha-Chlordane	46	U
319-85-7	beta-BHC	46	U
319-86-8	delta-BHC	46	U
60-57-1	Dieldrin	46	U
959-98-8	Endosulfan I	46	U
33213-65-9	Endosulfan II	46	U
1031-07-8	Endosulfan sulfate	46	U
72-20-8	Endrin	46	U
7421-93-4	Endrin aldehyde	46	U
53494-70-5	Endrin ketone	46	U
58-89-9	gamma-BHC (Lindane)	46	U
5103-74-2	gamma-Chlordane	46	U
76-44-8	Heptachlor	46	U
1024-57-3	Heptachlor epoxide	46	U
72-43-5	Methoxychlor	46	U
8001-35-2	Toxaphene	460	U

MW
10/2/10

SW8081B

12

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-22/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051212

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051212-012

Sample wt/vol: 10.26 (g/mL): g Lab File ID: 10051854.D

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/12/2010

Extraction : (Type) SONC Date Extracted: 05/15/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82451

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

RW
10/2/10

SW8081B

13

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-26/0-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051212

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051212-013

Sample wt/vol: 10.19 (g/mL): g Lab File ID: 10051856.D

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/12/2010

Extraction : (Type) SONC Date Extracted: 05/15/2010

Concentrated Extract Volume: 10 (μ L) Date Analyzed: 05/18/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82451

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	23	U
50-29-3	4,4-DDT	23	U
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U

NW
10/2/10

SW8081B

14

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-26/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No : 10051212

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051212-014

Sample wt/vol: 10.21 (g/mL): g Lab File ID: 10051858.D

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/12/2010

Extraction : (Type) SONC Date Extracted: 05/15/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82451

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	23	U
50-29-3	4,4-DDT	23	U
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U

NEJ
10/2/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-32/0-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod Ref No. _____ SDG No.: 10051212

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051212-015

Sample wt/vol: 10.25 (g/mL): g Lab File ID: 10051913.D

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/12/2010

Extraction : (Type) SONC Date Extracted: 05/15/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 2.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82501

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	44	U
72-55-9	4,4-DDE	48	
50-29-3	4,4-DDT	73	
309-00-2	Aldrin	44	U
319-84-6	alpha-BHC	44	U
5103-71-9	alpha-Chlordane	44	U
319-85-7	beta-BHC	44	U
319-86-8	delta-BHC	44	U
60-57-1	Dieldrin	44	U
959-98-8	Endosulfan I	44	U
33213-65-9	Endosulfan II	44	U
1031-07-8	Endosulfan sulfate	44	U
72-20-8	Endrin	44	U
7421-93-4	Endrin aldehyde	44	U
53494-70-5	Endrin ketone	44	U
58-89-9	gamma-BHC (Lindane)	44	U
5103-74-2	gamma-Chlordane	44	U
76-44-8	Heptachlor	44	U
1024-57-3	Heptachlor epoxide	44	U
72-43-5	Methoxychlor	44	U
8001-35-2	Toxaphene	440	U

NW
10/2/10

16

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-32/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No _____ SDG No.: 10051212

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051212-016

Sample wt/vol: 10.36 (g/mL): g Lab File ID: 10051862.D

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/12/2010

Extraction: (Type) SONC Date Extracted: 05/15/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82451

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

MW
10/2/10

SW8081B

17

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-37/0-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No.: 10051212

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051212-017

Sample wt/vol: 10.27 (g/mL): g Lab File ID: 10051864.D

% Moisture: 7 Decanted: (Y/N) N Date Received: 05/12/2010

Extraction : (Type) SONC Date Extracted: 05/15/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82451

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	21	U
72-55-9	4,4-DDE	28	
50-29-3	4,4-DDT	32	
309-00-2	Aldrin	21	U
319-84-6	alpha-BHC	21	U
5103-71-9	alpha-Chlordane	21	U
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
60-57-1	Dieldrin	21	U
959-98-8	Endosulfan I	21	U
33213-65-9	Endosulfan II	21	U
1031-07-8	Endosulfan sulfate	21	U
72-20-8	Endrin	21	U
7421-93-4	Endrin aldehyde	21	U
53494-70-5	Endrin ketone	21	U
58-89-9	gamma-BHC (Lindane)	21	U
5103-74-2	gamma-Chlordane	21	U
76-44-8	Heptachlor	21	U
1024-57-3	Heptachlor epoxide	21	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	210	U

lew
10/2/10

SW8081B

18

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-37/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051212

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051212-018

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10051866.D

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/12/2010

Extraction: (Type) SONC Date Extracted: 05/15/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 05/19/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82451

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	21	U
72-55-9	4,4-DDE	21	U
50-29-3	4,4-DDT	21	U
309-00-2	Aldrin	21	U
319-84-6	alpha-BHC	21	U
5103-71-9	alpha-Chlordane	21	U
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
60-57-1	Dieldrin	21	U
959-98-8	Endosulfan I	21	U
33213-65-9	Endosulfan II	21	U
1031-07-8	Endosulfan sulfate	21	U
72-20-8	Endrin	21	U
7421-93-4	Endrin aldehyde	21	U
53494-70-5	Endrin ketone	21	U
58-89-9	gamma-BHC (Lindane)	21	U
5103-74-2	gamma-Chlordane	21	U
76-44-8	Heptachlor	21	U
1024-57-3	Heptachlor epoxide	21	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	210	U

lw
10/2/10

SW8081B

19

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-38/0-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No.: 10051212

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051212-019

Sample wt/vol: 10.42 (g/mL): g Lab File ID: 10051917.D

% Moisture: 7 Decanted: (Y/N) N Date Received: 05/12/2010

Extraction : (Type) SONC Date Extracted: 05/15/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 2.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82501

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	41	U
72-55-9	4,4-DDE	94	~~E~~ J
50-29-3	4,4-DDT	66	
309-00-2	Aldrin	41	U
319-84-6	alpha-BHC	41	U
5103-71-9	alpha-Chlordane	41	U
319-85-7	beta-BHC	41	U
319-86-8	delta-BHC	41	U
60-57-1	Dieldrin	41	U
959-98-8	Endosulfan I	41	U
33213-65-9	Endosulfan II	41	U
1031-07-8	Endosulfan sulfate	41	U
72-20-8	Endrin	41	U
7421-93-4	Endrin aldehyde	41	U
53494-70-5	Endrin ketone	41	U
58-89-9	gamma-BHC (Lindane)	41	U
5103-74-2	gamma-Chlordane	41	U
76-44-8	Heptachlor	41	U
1024-57-3	Heptachlor epoxide	41	U
72-43-5	Methoxychlor	41	U
8001-35-2	Toxaphene	410	U

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10/2/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 20
AOC-2A-38/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod Ref No. _____ SDG No.: 10051212

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051212-020

Sample wt/vol: 10.38 (g/mL): g Lab File ID: 10051870.D

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/12/2010

Extraction : (Type) SONC Date Extracted: 05/15/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82451

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	22	U
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

lw
10/2/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 21
AOC-2A-35/0-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No: 10051212

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051212-021

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10051912.D

% Moisture: 7 Decanted: (Y/N) N Date Received: 05/12/2010

Extraction: (Type) SONC Date Extracted: 05/17/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 100.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82502

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	2,100	U
72-55-9	4,4-DDE	2,100	U
50-29-3	4,4-DDT	2,900	
309-00-2	Aldrin	2,100	U
319-84-6	alpha-BHC	2,100	U
5103-71-9	alpha-Chlordane	2,100	U
319-85-7	beta-BHC	2,100	U
319-86-8	delta-BHC	2,100	U
60-57-1	Dieldrin	2,100	U
959-98-8	Endosulfan I	2,100	U
33213-65-9	Endosulfan II	2,100	U
1031-07-8	Endosulfan sulfate	2,100	U
72-20-8	Endrin	2,100	U
7421-93-4	Endrin aldehyde	2,100	U
53494-70-5	Endrin ketone	2,100	U
58-89-9	gamma-BHC (Lindane)	2,100	U
5103-74-2	gamma-Chlordane	2,100	U
76-44-8	Heptachlor	2,100	U
1024-57-3	Heptachlor epoxide	2,100	U
72-43-5	Methoxychlor	2,100	U
8001-35-2	Toxaphene	21,000	U

lew
10/2/10

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 22
AOC-2A-35/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No. _____ SDG No: 10051212

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051212-022

Sample wt/vol: 10.27 (g/mL): g Lab File ID: 10051831.D

% Moisture: 5 Decanted: (Y/N) N Date Received: 05/12/2010

Extraction: (Type) SONC Date Extracted: 05/17/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82453

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	21	U
72-55-9	4,4-DDE	21	U
50-29-3	4,4-DDT	21	U
309-00-2	Aldrin	21	U
319-84-6	alpha-BHC	21	U
5103-71-9	alpha-Chlordane	21	U
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
60-57-1	Dieldrin	21	U
959-98-8	Endosulfan I	21	U
33213-65-9	Endosulfan II	21	U
1031-07-8	Endosulfan sulfate	21	U
72-20-8	Endrin	21	U
7421-93-4	Endrin aldehyde	21	U
53494-70-5	Endrin ketone	21	U
58-89-9	gamma-BHC (Lindane)	21	U
5103-74-2	gamma-Chlordane	21	U
76-44-8	Heptachlor	21	U
1024-57-3	Heptachlor epoxide	21	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	210	U

JW
10/2/10

SW8081B

23

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-29/0-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No _____ SDG No : 10051212

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051212-023

Sample wt/vol: 10.23 (g/mL): g Lab File ID: 10051833.D

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/12/2010

Extraction : (Type) SONC Date Extracted: 05/17/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82453

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	23	U
50-29-3	4,4-DDT	23	U
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U

JW
10/21/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 24
AOC-2A-29/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod Ref No. _____ SDG No.: 10051212

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051212-024

Sample wt/vol: 10.28 (g/mL): g Lab File ID: 10051835.D

% Moisture: 25 Decanted: (Y/N) N Date Received: 05/12/2010

Extraction : (Type) SONC Date Extracted: 05/17/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82453

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	26	U
72-55-9	4,4-DDE	26	U
50-29-3	4,4-DDT	26	U
309-00-2	Aldrin	26	U
319-84-6	alpha-BHC	26	U
5103-71-9	alpha-Chlordane	26	U
319-85-7	beta-BHC	26	U
319-86-8	delta-BHC	26	U
60-57-1	Dieldrin	26	U
959-98-8	Endosulfan I	26	U
33213-65-9	Endosulfan II	26	U
1031-07-8	Endosulfan sulfate	26	U
72-20-8	Endrin	26	U
7421-93-4	Endrin aldehyde	26	U
53494-70-5	Endrin ketone	26	U
58-89-9	gamma-BHC (Lindane)	26	U
5103-74-2	gamma-Chlordane	26	U
76-44-8	Heptachlor	26	U
1024-57-3	Heptachlor epoxide	26	U
72-43-5	Methoxychlor	26	U
8001-35-2	Toxaphene	260	U

UW
10/2/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-2A-03/2-4

25

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051212

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051212-025

Sample wt/vol: 10.31 (g/mL): g Lab File ID: 10051837.D

% Moisture: 23 Decanted: (Y/N) N Date Received: 05/12/2010

Extraction : (Type) SONC Date Extracted: 05/17/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/18/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82453

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	25	U
72-55-9	4,4-DDE	25	U
50-29-3	4,4-DDT	25	U
309-00-2	Aldrin	25	U
319-84-6	alpha-BHC	25	U
5103-71-9	alpha-Chlordane	25	U
319-85-7	beta-BHC	25	U
319-86-8	delta-BHC	25	U
60-57-1	Dieldrin	25	U
959-98-8	Endosulfan I	25	U
33213-65-9	Endosulfan II	25	U
1031-07-8	Endosulfan sulfate	25	U
72-20-8	Endrin	25	U
7421-93-4	Endrin aldehyde	25	U
53494-70-5	Endrin ketone	25	U
58-89-9	gamma-BHC (Lindane)	25	U
5103-74-2	gamma-Chlordane	25	U
76-44-8	Heptachlor	25	U
1024-57-3	Heptachlor epoxide	25	U
72-43-5	Methoxychlor	25	U
8001-35-2	Toxaphene	250	U

LW 10/2/10

SW8081B

ENVIRONMENTAL
Data Services, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051212

Client: ARGO Systems, Glen Burnie, MD Date: October 2, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-2A-21/0-1	10051212-001	Soil
2	AOC-2A-21/2-4	10051212-002	Soil
3	AOC-2A-27/0-1	10051212-003	Soil
4	AOC-2A-27/2-4	10051212-004	Soil
4MS	AOC-2A-27/2-4MS	10051212-004MS	Soil
4MSD	AOC-2A-27/2-4MSD	10051212-004MSD	Soil
5	AOC-2A-33/0-1	10051212-005	Soil
6	AOC-2A-33/2-4	10051212-006	Soil
7	AOC-2A-15/0-1	10051212-007	Soil
8	AOC-2A-15/2-4	10051212-008	Soil
9	AOC-2A-14/0-1	10051212-009	Soil
10	AOC-2A-14/2-4	10051212-010	Soil
11	AOC-2A-22/0-1	10051212-011	Soil
12	AOC-2A-22/2-4	10051212-012	Soil
13	AOC-2A-26/0-1	10051212-013	Soil
14	AOC-2A-26/2-4	10051212-014	Soil
15	AOC-2A-32/0-1	10051212-015	Soil
16	AOC-2A-32/2-4	10051212-016	Soil
17	AOC-2A-37/0-1	10051212-017	Soil
18	AOC-2A-37/2-4	10051212-018	Soil
19	AOC-2A-38/0-1	10051212-019	Soil
20	AOC-2A-38/2-4	10051212-020	Soil
21	AOC-2A-35/0-1	10051212-021	Soil
22	AOC-2A-35/2-4	10051212-022	Soil
22MS	AOC-2A-35/2-4MS	10051212-022MS	Soil
22MSD	AOC-2A-35/2-4MSD	10051212-022MSD	Soil
23	AOC-2A-29/0-1	10051212-023	Soil
24	AOC-2A-29/2-4	10051212-024	Soil
25	DUP-AOC-2A-03/2-4	10051212-025	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

CCAL Date	Compound	%D	Qualifier	Affected Samples
05/14/10	Indeno(1,2,3-c,d)pyrene	30.7%	J	15
	Dibenz(a,h)anthracene	30.3%	None	All ND

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD samples exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-2A-29/2-4 ug/kg	DUP-AOC-2A-03/2-4 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound Quantitation - No discrepancies were identified.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-21/0-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82390 Mod Ref No : _____ SDG No.: 10051212

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051212-001

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10051409.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/12/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/14/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

MW
10/2/10

SW8270C

2

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-21/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82390 Mod. Ref No.: _____ SDG No : 10051212

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051212-002

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10051410.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/12/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/14/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	180	U
129-00-0	Pyrene	180	U

(1) Cannot be separated from Diphenylamine

10/2/10

SW8270C

3

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-27/0-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82390 Mod. Ref No : _____ SDG No.: 10051212

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051212-003

Sample wt/vol: 30.15 (g/mL): g Lab File ID: 10051411.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/12/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/14/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

MW
10/2/10

SW8270C

4

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-2A-27/2-4 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82390 Mod Ref No.: _____ SDG No : 10051212

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051212-004

Sample wt/vol: 30.14 (g/mL): g Lab File ID: 10051412.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 3 Decanted: (Y/N) N Date Received: 05/12/2010

Concentrated Extract Volume: 1 (µ l.) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	170	U
208-96-8	Acenaphthylene	170	U
120-12-7	Anthracene	170	U
56-55-3	Benzo(a)anthracene	170	U
50-32-8	Benzo(a)pyrene	24	U
205-99-2	Benzo(b)fluoranthene	170	U
191-24-2	Benzo(g,h,i)perylene	170	U
207-08-9	Benzo(k)fluoranthene	170	U
218-01-9	Chrysene	170	U
53-70-3	Dibenz(a,h)Anthracene	24	U
206-44-0	Fluoranthene	170	U
86-73-7	Fluorene	170	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	170	U
91-57-6	2-Methylnaphthalene	170	U
91-20-3	Naphthalene	170	U
85-01-8	Phenanthrene	170	U
129-00-0	Pyrene	170	U

(1) Cannot be separated from Diphenylamine

NW 10/2/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-2A-33/0-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82390 Mod Ref No.: _____ SDG No.: 10051212

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051212-005

Sample wt/vol: 30.01 (g/mL): g Lab File ID: 10051413.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/12/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

NW
10/2/10

6

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-2A-33/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82390 Mod. Ref No : _____ SDG No.: 10051212

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051212-006

Sample wt/vol: 30.12 (g/mL): g Lab File ID: 10051414.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/12/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

VW
10/2/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-15/0-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82390 Mod. Ref No : _____ SDG No.: 10051212

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051212-007

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10051415.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/12/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

MW
10/2/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-15/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82390 Mod Ref No.: _____ SDG No.: 10051212

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051212-008

Sample wt/vol: 30.04 (g/mL): g Lab File ID: 10051416.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/12/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

MW
10/21/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-2A-14/0-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82390 Mod. Ref No : _____ SDG No.: 10051212

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051212-009

Sample wt/vol: 30.08 (g/mL):g Lab File ID: 10051417.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/12/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

NW
10/21/10

10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-14/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82390 Mod. Ref No : _____ SDG No.: 10051212

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051212-010

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10051418.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/12/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

(1) Cannot be separated from Diphenylamine

NW
10/2/10

SW8270C

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1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO

AOC-2A-22/0-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82390 Mod. Ref No.: _____ SDG No.: 10051212

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051212-011

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10051422.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/12/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	140	J
50-32-8	Benzo(a)pyrene	130	
205-99-2	Benzo(b)fluoranthene	110	J
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	110	J
218-01-9	Chrysene	140	J
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	170	J
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	180	J

MW
10/2/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-2A-22/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82390 Mod Ref No : _____ SDG No : 10051212

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051212-012

Sample wt/vol: 30.13 (g/mL):g Lab File ID: 10051408.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/12/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

(1) Cannot be separated from Diphenylamine

NW 10/2/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-2A-26/0-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82390 Mod Ref No.: _____ SDG No.: 10051212

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051212-013

Sample wt/vol: 30.16 (g/mL): g Lab File ID: 10051419.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/12/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/14/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

MW
10/21/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-26/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82390 Mod. Ref No.: _____ SDG No.: 10051212

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051212-014

Sample wt/vol: 30.14 (g/mL): g Lab File ID: 10051420.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/12/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

(1) Cannot be separated from Diphenylamine

lw 10/2/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-2A-32/0-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82390 Mod Ref No.: _____ SDG No : 10051212

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051212-015

Sample wt/vol: 30.02 (g/mL): g Lab File ID: 10051423.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/12/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	210	
50-32-8	Benzo(a)pyrene	210	
205-99-2	Benzo(b)fluoranthene	200	
191-24-2	Benzo(g,h,i)perylene	130	J
207-08-9	Benzo(k)fluoranthene	160	J
218-01-9	Chrysene	240	
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	360	
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	140	~~J~~ J
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	220	
129-00-0	Pyrene	490	

MW
10/2/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-2A-32/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82390 Mod Ref No : _____ SDG No.: 10051212

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051212-016

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10051421.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/12/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/14/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

NW
10/2/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-37/0-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82409 Mod Ref No : _____ SDG No.: 10051212

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051212-017

Sample wt/vol: 30.21 (g/mL): g Lab File ID: 10051521.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7 Decanted: (Y/N) N Date Received: 05/12/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/15/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/16/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	120	J
50-32-8	Benzo(a)pyrene	110	
205-99-2	Benzo(b)fluoranthene	120	J
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	98	J
218-01-9	Chrysene	130	J
53-70-3	Dibenz(a,h)Anthracene	25	U
206-44-0	Fluoranthene	260	
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	220	
129-00-0	Pyrene	230	

MW
10/2/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-37/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82409 Mod Ref No.: _____ SDG No.: 10051212

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051212-018

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10051514.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/12/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/15/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	180	U
129-00-0	Pyrene	180	U

(1) Cannot be separated from Diphenylamine

kw 10/2/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-2A-38/0-1

Lab Name : PHASE SEPARATION SCIENCE
Contract: 1462309
Lab Code : PHASE
Case No.: 82409
Mod Ref No.: _____
SDG No.: 10051212
Matrix : (SOIL/SED/WATER) SOIL
Lab Sample Id: 10051212-019
Sample wt/vol: 30.07 (g/mL): g
Lab File ID: 10051520.D
Level: (LOW/MED) LOW
Extraction: (Type) SONC
% Moisture: 7
Decanted: (Y/N) N
Date Received: 05/12/2010
Concentrated Extract Volume: 1 (µL)
Date Extracted: 05/15/2010
Injection Volume: _____ (µL)
GPC Factor: 1.000
Date Analyzed: 05/16/2010
GPC Cleanup (Y/N): N
pH: N/A
Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	90	J
50-32-8	Benzo(a)pyrene	100	
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	93	J
218-01-9	Chrysene	98	J
53-70-3	Dibenz(a,h)Anthracene	25	U
206-44-0	Fluoranthene	140	J
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	92	J
129-00-0	Pyrene	180	J

CW
10/2/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-38/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82409 Mod. Ref No : _____ SDG No : 10051212

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051212-020

Sample wt/vol: 30.14 (g/mL): g Lab File ID: 10051515.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/12/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/15/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

(1) Cannot be separated from Diphenylamine

MW
10/2/10

SW8270C

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1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

AOC-2A-35/0-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82409 Mod Ref No.: _____ SDG No.: 10051212

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051212-021

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10051516.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7 Decanted: (Y/N) N Date Received: 05/12/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/15/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/16/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	25	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	25	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	180	U
129-00-0	Pyrene	180	U

MW
10/2/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-35/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82409 Mod. Ref No.: _____ SDG No.: 10051212

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051212-022

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10051513.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5 Decanted: (Y/N) N Date Received: 05/12/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/15/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	25	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	25	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	180	U
129-00-0	Pyrene	180	U

(1) Cannot be separated from Diphenylamine

MW
10/2/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-2A-29/0-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82409 Mod. Ref No : _____ SDG No : 10051212

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051212-023

Sample wt/vol: 30.18 (g/mL):g Lab File ID: 10051517.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/12/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/15/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/16/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

lw
10/2/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-2A-29/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82409 Mod Ref No : _____ SDG No : 10051212

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051212-024

Sample wt/vol: 30.09 (g/mL):g Lab File ID: 10051518.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 05/12/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/15/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/16/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	220	U
208-96-8	Acenaphthylene	220	U
120-12-7	Anthracene	220	U
56-55-3	Benzo(a)anthracene	220	U
50-32-8	Benzo(a)pyrene	31	U
205-99-2	Benzo(b)fluoranthene	220	U
191-24-2	Benzo(g,h,i)perylene	220	U
207-08-9	Benzo(k)fluoranthene	220	U
218-01-9	Chrysene	220	U
53-70-3	Dibenz(a,h)Anthracene	31	U
206-44-0	Fluoranthene	220	U
86-73-7	Fluorene	220	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	220	U
91-57-6	2-Methylnaphthalene	220	U
91-20-3	Naphthalene	220	U
85-01-8	Phenanthrene	220	U
129-00-0	Pyrene	220	U

(1) Cannot be separated from Diphenylamine

NW
10/2/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
DUP-AOC-2A-03/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82409 Mod Ref No.: _____ SDG No.: 10051212

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051212-025

Sample wt/vol: 30.07 (g/mL): g Lab File ID: 10051519.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23 Decanted: (Y/N) N Date Received: 05/12/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/15/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/16/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	220	U
208-96-8	Acenaphthylene	220	U
120-12-7	Anthracene	220	U
56-55-3	Benzo(a)anthracene	220	U
50-32-8	Benzo(a)pyrene	30	U
205-99-2	Benzo(b)fluoranthene	220	U
191-24-2	Benzo(g,h,i)perylene	220	U
207-08-9	Benzo(k)fluoranthene	220	U
218-01-9	Chrysene	220	U
53-70-3	Dibenz(a,h)Anthracene	30	U
206-44-0	Fluoranthene	220	U
86-73-7	Fluorene	220	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	220	U
91-57-6	2-Methylnaphthalene	220	U
91-20-3	Naphthalene	220	U
85-01-8	Phenanthrene	220	U
129-00-0	Pyrene	220	U

NW
10/2/10

ENVIRONMENTAL
Data Services, Inc.

PESTICIDES

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051117

Client: ARGO Systems, Glen Burnie, MD Date: October 1, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-2A-20/0-1	10051117-001	Soil
2	AOC-2A-20/2-4	10051117-002	Soil
3	AOC-2A-13/0-1	10051117-003	Soil
4	AOC-2A-13/2-4	10051117-004	Soil
5	AOC-2A-8/0-1	10051117-005	Soil
6	AOC-2A-8/2-4	10051117-006	Soil
7	AOC-2A-11/0-1	10051117-007	Soil
8	AOC-2A-11/2-4	10051117-008	Soil
9	AOC-2A-25/0-1	10051117-009	Soil
10	AOC-2A-25/2-4	10051117-010	Soil
11	AOC-2A-6/0-1	10051117-011	Soil
12	AOC-2A-6/2-4	10051117-012	Soil
13	AOC-2A-12/0-1	10051117-013	Soil
14	AOC-2A-12/2-4	10051117-014	Soil
14MS	AOC-2A-12/2-4MS	10051117-014MS	Soil
14MSD	AOC-2A-12/2-4MSD	10051117-014MSD	Soil
15	AOC-2A-18/0-1	10051117-015	Soil
16	AOC-2A-18/2-4	10051117-016	Soil
17	AOC-2A-5/0-1	10051117-017	Soil
18	AOC-2A-5/2-4	10051117-018	Soil
19	AOC-2A-3/0-1	10051117-019	Soil
20	AOC-2A-3/2-4	10051117-020	Soil
21	AOC-2A-7/0-1	10051117-021	Soil
22	AOC-2A-7/2-4	10051117-022	Soil
23	DUP-AOC-2A-01/0-1	10051117-023	Soil
23DL	DUP-AOC-2A-01/0-1DL	10051117-023DL	Soil
24	DUP-AOC-2A-02/2-4	10051117-024	Soil
24MS	DUP-AOC-2A-02/2-4MS	10051117-024MS	Soil
24MSD	DUP-AOC-2A-02/2-4MSD	10051117-024MSD	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days.

Instrument performance - All 4,4'-DDT/endrin % breakdown, resolution check mixture and PEMs were within criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD values.

Calibration Verification - The continuing calibrations exhibited acceptable %D values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD samples exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-2A-20/0-1 ug/kg	DUP-AOC-2A-01/0-1 ug/kg	RPD	Qualifier
4,4-DDD	440 U	63	NC	None
4,4-DDE	390	340	14%	None
4,4-DDT	570	480	17%	None

Compound	AOC-2A-20/2-4 ug/kg	DUP-AOC-2A-02/2-4 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound Identification - Retention times were acceptable and no further action was taken.

Compound Quantitation - EDS sample ID# 23 exhibited high concentrations of the compounds 4,4-DDE and 4,4-DDT that exceeded the calibration range and were flagged (E) by the laboratory. The sample was reanalyzed at a 20X dilution, and the dilution results should be used for these compounds for reporting purposes.

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-20/0-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051117

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051117-001

Sample wt/vol: 10.34 (g/mL): g Lab File ID: 10051341.D

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/11/2010

Extraction : (Type) SONC Date Extracted: 05/12/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 20.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82338

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	440	U
72-55-9	4,4-DDE	390	J
50-29-3	4,4-DDT	570	
309-00-2	Aldrin	440	U
319-84-6	alpha-BHC	440	U
5103-71-9	alpha-Chlordane	440	U
319-85-7	beta-BHC	440	U
319-86-8	delta-BHC	440	U
60-57-1	Dieldrin	440	U
959-98-8	Endosulfan I	440	U
33213-65-9	Endosulfan II	440	U
1031-07-8	Endosulfan sulfate	440	U
72-20-8	Endrin	440	U
7421-93-4	Endrin aldehyde	440	U
53494-70-5	Endrin ketone	440	U
58-89-9	gamma-BHC (Lindane)	440	U
5103-74-2	gamma-Chlordane	440	U
76-44-8	Heptachlor	440	U
1024-57-3	Heptachlor epoxide	440	U
72-43-5	Methoxychlor	440	U
8001-35-2	Toxaphene	4,400	U

lw 10/1/10

SW8081B

2

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-20/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No. _____ SDG No.: 10051117

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051117-002

Sample wt/vol: 10.27 (g/mL): g Lab File ID: 10051314.D

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/11/2010

Extraction : (Type) SONC Date Extracted: 05/12/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82347

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	25	U
72-55-9	4,4-DDE	25	U
50-29-3	4,4-DDT	25	U
309-00-2	Aldrin	25	U
319-84-6	alpha-BHC	25	U
5103-71-9	alpha-Chlordane	25	U
319-85-7	beta-BHC	25	U
319-86-8	delta-BHC	25	U
60-57-1	Dieldrin	25	U
959-98-8	Endosulfan I	25	U
33213-65-9	Endosulfan II	25	U
1031-07-8	Endosulfan sulfate	25	U
72-20-8	Endrin	25	U
7421-93-4	Endrin aldehyde	25	U
53494-70-5	Endrin ketone	25	U
58-89-9	gamma-BHC (Lindane)	25	U
5103-74-2	gamma-Chlordane	25	U
76-44-8	Heptachlor	25	U
1024-57-3	Heptachlor epoxide	25	U
72-43-5	Methoxychlor	25	U
8001-35-2	Toxaphene	250	U

RW
10/1/10

SW8081B

3

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-13/0-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10051117

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051117-003

Sample wt/vol: 10.31 (g/mL): g Lab File ID: 10051316.D

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/11/2010

Extraction : (Type) SONC Date Extracted: 05/12/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82347

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	39	
50-29-3	4,4-DDT	37	
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

NW
10/1/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-13/2-4

4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No.: 10051117

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051117-004

Sample wt/vol: 10.26 (g/mL): g Lab File ID: 10051318.D

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/11/2010

Extraction : (Type) SONC Date Extracted: 05/12/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82347

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

KW
10/1/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 5
AOC-2A-8/0-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No.: 10051117

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051117-005

Sample wt/vol: 10.39 (g/mL): g Lab File ID: 10051320.D

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/11/2010

Extraction : (Type) SONC Date Extracted: 05/12/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82347

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	23	U
50-29-3	4,4-DDT	23	U
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U

nw
10/1/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-8/2-4

6

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No : 10051117

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051117-006

Sample wt/vol: 10.28 (g/mL): g Lab File ID: 10051321.D

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/11/2010

Extraction : (Type) SONC Date Extracted: 05/12/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82338

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	23	U
50-29-3	4,4-DDT	23	U
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U

MW 10/1/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 7
AOC-2A-11/0-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No : 10051117

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051117-007

Sample wt/vol: 10.41 (g/mL): g Lab File ID: 10051322.D

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/11/2010

Extraction : (Type) SONC Date Extracted: 05/12/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82347

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	21	U
72-55-9	4,4-DDE	21	U
50-29-3	4,4-DDT	21	U
309-00-2	Aldrin	21	U
319-84-6	alpha-BHC	21	U
5103-71-9	alpha-Chlordane	21	U
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
60-57-1	Dieldrin	21	U
959-98-8	Endosulfan I	21	U
33213-65-9	Endosulfan II	21	U
1031-07-8	Endosulfan sulfate	21	U
72-20-8	Endrin	21	U
7421-93-4	Endrin aldehyde	21	U
53494-70-5	Endrin ketone	21	U
58-89-9	gamma-BHC (Lindane)	21	U
5103-74-2	gamma-Chlordane	21	U
76-44-8	Heptachlor	21	U
1024-57-3	Heptachlor epoxide	21	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	210	U

AW
10/1/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 8
AOC-2A-11/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No.: 10051117

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051117-008

Sample wt/vol: 10.27 (g/mL): g Lab File ID: 10051329.D

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/11/2010

Extraction : (Type) SONC Date Extracted: 05/12/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82338

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	23	U
50-29-3	4,4-DDT	23	U
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U

NW
10/1/10

SW8081B

9

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-25/0-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No. _____ SDG No.: 10051117

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051117-009

Sample wt/vol: 10.44 (g/mL): g Lab File ID: 10051330.D

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/11/2010

Extraction : (Type) SONC Date Extracted: 05/12/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82347

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	21	U
72-55-9	4,4-DDE	21	U
50-29-3	4,4-DDT	21	U
309-00-2	Aldrin	21	U
319-84-6	alpha-BHC	21	U
5103-71-9	alpha-Chlordane	21	U
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
60-57-1	Dieldrin	21	U
959-98-8	Endosulfan I	21	U
33213-65-9	Endosulfan II	21	U
1031-07-8	Endosulfan sulfate	21	U
72-20-8	Endrin	21	U
7421-93-4	Endrin aldehyde	21	U
53494-70-5	Endrin ketone	21	U
58-89-9	gamma-BHC (Lindane)	21	U
5103-74-2	gamma-Chlordane	21	U
76-44-8	Heptachlor	21	U
1024-57-3	Heptachlor epoxide	21	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	210	U

NW
10/1/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-25/2-4

10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No _____ SDG No.: 10051117

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051117-010

Sample wt/vol: 10.38 (g/mL): g Lab File ID: 10051331.D

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/11/2010

Extraction: (Type) SONC Date Extracted: 05/12/2010

Concentrated Extract Volume: 10 (µL) Date Analyzed: 05/13/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82338

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

MJ
10/1/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-6/0-1

11

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051117

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051117-011

Sample wt/vol: 10.25 (g/mL): g Lab File ID: 10051332.D

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/11/2010

Extraction : (Type) SONC Date Extracted: 05/12/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82347

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	20	J
50-29-3	4,4-DDT	23	U
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U

NW
10/1/10

SW8081B

12

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-6/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No. _____ SDG No.: 10051117

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051117-012

Sample wt/vol: 10.28 (g/mL): g Lab File ID: 10051333.D

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/11/2010

Extraction : (Type) SONC Date Extracted: 05/12/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82338

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

MJ
10/1/10

SW8081B

13

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-12/0-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No _____ SDG No : 10051117

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051117-013

Sample wt/vol: 10.39 (g/mL): g Lab File ID: 10051334.D

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/11/2010

Extraction : (Type) SONC Date Extracted: 05/12/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82347

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

kw
10/1/10

SW8081B

14

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-12/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No. _____ SDG No : 10051117

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051117-014

Sample wt/vol: 10.21 (g/mL): g Lab File ID: 10051319.D

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/11/2010

Extraction : (Type) SONC Date Extracted: 05/12/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82338

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	25	U
72-55-9	4,4-DDE	25	U
50-29-3	4,4-DDT	25	U
309-00-2	Aldrin	25	U
319-84-6	alpha-BHC	25	U
5103-71-9	alpha-Chlordane	25	U
319-85-7	beta-BHC	25	U
319-86-8	delta-BHC	25	U
60-57-1	Dieldrin	25	U
959-98-8	Endosulfan I	25	U
33213-65-9	Endosulfan II	25	U
1031-07-8	Endosulfan sulfate	25	U
72-20-8	Endrin	25	U
7421-93-4	Endrin aldehyde	25	U
53494-70-5	Endrin ketone	25	U
58-89-9	gamma-BHC (Lindane)	25	U
5103-74-2	gamma-Chlordane	25	U
76-44-8	Heptachlor	25	U
1024-57-3	Heptachlor epoxide	25	U
72-43-5	Methoxychlor	25	U
8001-35-2	Toxaphene	250	U

MW
10/1/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-18/0-1

15

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051117

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051117-015

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10051335.D

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/11/2010

Extraction : (Type) SONC Date Extracted: 05/12/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82338

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	21	U
72-55-9	4,4-DDE	21	U
50-29-3	4,4-DDT	21	U
309-00-2	Aldrin	21	U
319-84-6	alpha-BHC	21	U
5103-71-9	alpha-Chlordane	21	U
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
60-57-1	Dieldrin	21	U
959-98-8	Endosulfan I	21	U
33213-65-9	Endosulfan II	21	U
1031-07-8	Endosulfan sulfate	21	U
72-20-8	Endrin	21	U
7421-93-4	Endrin aldehyde	21	U
53494-70-5	Endrin ketone	21	U
58-89-9	gamma-BHC (Lindane)	21	U
5103-74-2	gamma-Chlordane	21	U
76-44-8	Heptachlor	21	U
1024-57-3	Heptachlor epoxide	21	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	210	U

lw
10/1/10

SW8081B

16

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-18/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051117

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051117-016

Sample wt/vol: 10.39 (g/mL): g Lab File ID: 10051336.D

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/11/2010

Extraction : (Type) SONC Date Extracted: 05/12/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82347

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	23	U
50-29-3	4,4-DDT	23	U
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U

lw
10/1/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-5/0-1

17

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051117

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051117-017

Sample wt/vol: 10.25 (g/mL): g Lab File ID: 10051337.D

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/11/2010

Extraction : (Type) SONC Date Extracted: 05/12/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82338

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	22	U
72-55-9	4,4-DDE	23	
50-29-3	4,4-DDT	22	U
309-00-2	Aldrin	22	U
319-84-6	alpha-BHC	22	U
5103-71-9	alpha-Chlordane	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	22	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	22	U
72-20-8	Endrin	22	U
7421-93-4	Endrin aldehyde	22	U
53494-70-5	Endrin ketone	22	U
58-89-9	gamma-BHC (Lindane)	22	U
5103-74-2	gamma-Chlordane	22	U
76-44-8	Heptachlor	22	U
1024-57-3	Heptachlor epoxide	22	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	220	U

NW
10/1/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-5/2-4

18

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No.: 10051117

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051117-018

Sample wt/vol: 10.26 (g/mL): g Lab File ID: 10051338.D

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/11/2010

Extraction : (Type) SONC Date Extracted: 05/12/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82347

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

MD
10/1/10

SW8081B

19

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-3/0-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No: 10051117

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051117-019

Sample wt/vol: 10.32 (g/mL): g Lab File ID: 10051342.D

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/11/2010

Extraction: (Type) SONC Date Extracted: 05/12/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82347

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

MW
10/1/10

SW8081B

20

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-3/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No : 10051117

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051117-020

Sample wt/vol: 10.29 (g/mL): g Lab File ID: 10051421.D

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/11/2010

Extraction : (Type) SONC Date Extracted: 05/13/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82382

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	24	U
72-55-9	4,4-DDE	24	U
50-29-3	4,4-DDT	24	U
309-00-2	Aldrin	24	U
319-84-6	alpha-BHC	24	U
5103-71-9	alpha-Chlordane	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
60-57-1	Dieldrin	24	U
959-98-8	Endosulfan I	24	U
33213-65-9	Endosulfan II	24	U
1031-07-8	Endosulfan sulfate	24	U
72-20-8	Endrin	24	U
7421-93-4	Endrin aldehyde	24	U
53494-70-5	Endrin ketone	24	U
58-89-9	gamma-BHC (Lindane)	24	U
5103-74-2	gamma-Chlordane	24	U
76-44-8	Heptachlor	24	U
1024-57-3	Heptachlor epoxide	24	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	240	U

LW
10/1/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-7/0-1

21

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod Ref No _____ SDG No: 10051117

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051117-021

Sample wt/vol: 10.26 (g/mL): g Lab File ID: 10051423.D

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/11/2010

Extraction: (Type) SONC Date Extracted: 05/13/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82382

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	18	J
50-29-3	4,4-DDT	23	U
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U

NW
10/1/10

SW8081B

22

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC-2A-7/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10051117

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051117-022

Sample wt/vol: 10.19 (g/mL): g Lab File ID: 10051425.D

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/11/2010

Extraction : (Type) SONC Date Extracted: 05/13/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82382

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	23	U
72-55-9	4,4-DDE	23	U
50-29-3	4,4-DDT	23	U
309-00-2	Aldrin	23	U
319-84-6	alpha-BHC	23	U
5103-71-9	alpha-Chlordane	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
60-57-1	Dieldrin	23	U
959-98-8	Endosulfan I	23	U
33213-65-9	Endosulfan II	23	U
1031-07-8	Endosulfan sulfate	23	U
72-20-8	Endrin	23	U
7421-93-4	Endrin aldehyde	23	U
53494-70-5	Endrin ketone	23	U
58-89-9	gamma-BHC (Lindane)	23	U
5103-74-2	gamma-Chlordane	23	U
76-44-8	Heptachlor	23	U
1024-57-3	Heptachlor epoxide	23	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	230	U

MW 10/1/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-AOC-2A-01/0-1

23

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ Mod. Ref No _____ SDG No.: 10051117

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051117-023

Sample wt/vol: 10.42 (g/mL): g Lab File ID: 10051427.D

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/11/2010

Extraction : (Type) SONC Date Extracted: 05/13/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 5.0

GPC Cleanup N pH: _____ Sulfur Cleanup (Y/N): N

82382

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	63	J
72-55-9	4,4-DDE	340 ~~380~~	
50-29-3	4,4-DDT	480 ~~560~~	
309-00-2	Aldrin	110	U
319-84-6	alpha-BHC	110	U
5103-71-9	alpha-Chlordane	110	U
319-85-7	beta-BHC	110	U
319-86-8	delta-BHC	110	U
60-57-1	Dieldrin	110	U
959-98-8	Endosulfan I	110	U
33213-65-9	Endosulfan II	110	U
1031-07-8	Endosulfan sulfate	110	U
72-20-8	Endrin	110	U
7421-93-4	Endrin aldehyde	110	U
53494-70-5	Endrin ketone	110	U
58-89-9	gamma-BHC (Lindane)	110	U
5103-74-2	gamma-Chlordane	110	U
76-44-8	Heptachlor	110	U
1024-57-3	Heptachlor epoxide	110	U
72-43-5	Methoxychlor	110	U
8001-35-2	Toxaphene	1,100	U

MW
10/1/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 2301
DUP-AOC-2A-01/0-1

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No. _____ SDG No: 10051117

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051117-023

Sample wt/vol: 10.42 (g/mL): g Lab File ID: 10051448.D

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/11/2010

Extraction: (Type) SONC Date Extracted: 05/13/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 20.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

Use original

82382

exclude

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	440	U
72-55-9	4,4-DDE	340	
50-29-3	4,4-DDT	480	
309-00-2	Aldrin	440	U
319-84-6	alpha-BHC	440	U
5103-71-9	alpha-Chlordane	440	U
319-85-7	beta-BHC	440	U
319-86-8	delta-BHC	440	U
60-57-1	Dieldrin	440	U
959-98-8	Endosulfan I	440	U
33213-65-9	Endosulfan II	440	U
1031-07-8	Endosulfan sulfate	440	U
72-20-8	Endrin	440	U
7421-93-4	Endrin aldehyde	440	U
53494-70-5	Endrin ketone	440	U
58-89-9	gamma-BHC (Lindane)	440	U
5103-74-2	gamma-Chlordane	440	U
76-44-8	Heptachlor	440	U
1024-57-3	Heptachlor epoxide	440	U
72-43-5	Methoxychlor	440	U
8001-35-2	Toxaphene	4,400	U
57-74-9	Chlordane	4,400	U

KW
10/1/10

SW8081B

1 G - FORM I PEST
ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 24
DUP-AOC-2A-02/2-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ Mod. Ref No _____ SDG No.: 10051117

Matrix (SOIL/SED/WATER): SOIL Lab Sample Id: 10051117-024

Sample wt/vol: 10.16 (g/mL): g Lab File ID: 10051419.D

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/11/2010

Extraction: (Type) SONC Date Extracted: 05/13/2010

Concentrated Extract Volume: 10 (µ L) Date Analyzed: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: _____ Sulfur Cleanup (Y/N): N

82382

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
72-54-8	4,4-DDD	26	U
72-55-9	4,4-DDE	26	U
50-29-3	4,4-DDT	26	U
309-00-2	Aldrin	26	U
319-84-6	alpha-BHC	26	U
5103-71-9	alpha-Chlordane	26	U
319-85-7	beta-BHC	26	U
319-86-8	delta-BHC	26	U
60-57-1	Dieldrin	26	U
959-98-8	Endosulfan I	26	U
33213-65-9	Endosulfan II	26	U
1031-07-8	Endosulfan sulfate	26	U
72-20-8	Endrin	26	U
7421-93-4	Endrin aldehyde	26	U
53494-70-5	Endrin ketone	26	U
58-89-9	gamma-BHC (Lindane)	26	U
5103-74-2	gamma-Chlordane	26	U
76-44-8	Heptachlor	26	U
1024-57-3	Heptachlor epoxide	26	U
72-43-5	Methoxychlor	26	U
8001-35-2	Toxaphene	260	U

MW
10/1/10

SW8081B

ENVIRONMENTAL
Data Services, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051117

Client: ARGO Systems, Glen Burnie, MD Date: October 1, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	AOC-2A-20/0-1	10051117-001	Soil
2	AOC-2A-20/2-4	10051117-002	Soil
3	AOC-2A-13/0-1	10051117-003	Soil
4	AOC-2A-13/2-4	10051117-004	Soil
5	AOC-2A-8/0-1	10051117-005	Soil
6	AOC-2A-8/2-4	10051117-006	Soil
7	AOC-2A-11/0-1	10051117-007	Soil
8	AOC-2A-11/2-4	10051117-008	Soil
9	AOC-2A-25/0-1	10051117-009	Soil
10	AOC-2A-25/2-4	10051117-010	Soil
11	AOC-2A-6/0-1	10051117-011	Soil
12	AOC-2A-6/2-4	10051117-012	Soil
13	AOC-2A-12/0-1	10051117-013	Soil
14	AOC-2A-12/2-4	10051117-014	Soil
14MS	AOC-2A-12/2-4MS	10051117-014MS	Soil
14MSD	AOC-2A-12/2-4MSD	10051117-014MSD	Soil
15	AOC-2A-18/0-1	10051117-015	Soil
16	AOC-2A-18/2-4	10051117-016	Soil
17	AOC-2A-5/0-1	10051117-017	Soil
18	AOC-2A-5/2-4	10051117-018	Soil
19	AOC-2A-3/0-1	10051117-019	Soil
20	AOC-2A-3/2-4	10051117-020	Soil
21	AOC-2A-7/0-1	10051117-021	Soil
22	AOC-2A-7/2-4	10051117-022	Soil
23	DUP-AOC-2A-01/0-1	10051117-023	Soil
24	DUP-AOC-2A-02/2-4	10051117-024	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	AOC-2A-20/0-1 ug/kg	DUP-AOC-2A-01/0-1 ug/kg	RPD	Qualifier
Benzo(a)anthracene	140	190	30%	None
Benzo(a)pyrene	130	180	32%	None
Benzo(b)fluoranthene	130	170	27%	None
Benzo(g,h,i)perylene	190 U	100	NC	None
Benzo(k)fluoranthene	95	140	38%	None
Chrysene	140	190	30%	None
Fluoranthene	240	330	32%	None
Indeno(1,2,3-c,d)Pyrene	190 U	110	NC	None
Phenanthrene	190	260	31%	None
Pyrene	220	400	58%	None

Compound	AOC-2A-20/2-4 ug/kg	DUP-AOC-2A-02/2-4 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound Quantitation - No discrepancies were identified.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-2A-20/0-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82359 Mod Ref No.: _____ SDG No : 10051117

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051117-001

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10051347.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/11/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	140	J
50-32-8	Benzo(a)pyrene	130	
205-99-2	Benzo(b)fluoranthene	130	J
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	95	J
218-01-9	Chrysene	140	J
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	240	
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	
129-00-0	Pyrene	220	

AW
10/1/10

2

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-20/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82359 Mod. Ref No.: _____ SDG No.: 10051117

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051117-002

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10051348.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/11/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	30	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	30	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

NEJ
10/1/10

3

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-13/0-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82359 Mod. Ref No.: _____ SDG No.: 10051117

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051117-003

Sample wt/vol: 30.17 (g/mL):g Lab File ID: 10051349.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/11/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	29	
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

nw
10/1/10

4

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-13/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82359 Mod. Ref No.: _____ SDG No : 10051117

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051117-004

Sample wt/vol: 30.19 (g/mL):g Lab File ID: 10051350.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/11/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

NW
10/1/10

5

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-8/0-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82394 Mod. Ref No.: _____ SDG No.: 10051117

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051117-005

Sample wt/vol: 30.05 (g/mL):g Lab File ID: 10051432.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/11/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

MW
10/1/10

6

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-2A-8/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82394 Mod. Ref No.: _____ SDG No : 10051117

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051117-006

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10051433.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/11/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

WW
10/1/10

7

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-11/0-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82394 Mod Ref No : _____ SDG No.: 10051117

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051117-007

Sample wt/vol: 30.06 (g/mL):g Lab File ID: 10051434.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/11/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/14/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	25	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	25	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	180	U
129-00-0	Pyrene	180	U

NW
10/1/10

8

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-11/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82394 Mod. Ref No : _____ SDG No : 10051117

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051117-008

Sample wt/vol: 30.05 (g/mL):g Lab File ID: 10051435.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/11/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

MW
10/1/10

9

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-25/0-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82394 Mod Ref No.: _____ SDG No : 10051117

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051117-009

Sample wt/vol: 30.17 (g/mL):g Lab File ID: 10051436.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/11/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	180	U
129-00-0	Pyrene	180	U

KW
10/1/10

10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-2A-25/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82394 Mod. Ref No.: _____ SDG No.: 10051117

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051117-010

Sample wt/vol: 30.09 (g/mL):g Lab File ID: 10051437.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/11/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/14/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

MW
10/1/10

(1) Cannot be separated from Diphenylamine

11

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-6/0-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82394 Mod Ref No.: _____ SDG No.: 10051117

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051117-011

Sample wt/vol: 30.08 (g/mL):g Lab File ID: 10051438.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/11/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	33	
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

NW
10/1/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-6/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82394 Mod Ref No : _____ SDG No : 10051117

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051117-012

Sample wt/vol: 30.12 (g/mL):g Lab File ID: 10051439.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/11/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

RW
10/11/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-12/0-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82394 Mod Ref No.: _____ SDG No : 10051117

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051117-013

Sample wt/vol: 30.17 (g/mL):g Lab File ID: 10051440.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/11/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

NW
10/1/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-12/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82394 Mod Ref No.: _____ SDG No.: 10051117

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051117-014

Sample wt/vol: 30.02 (g/mL):g Lab File ID: 10051431.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/11/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	30	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	30	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

HW
10/1/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-18/0-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82394 Mod. Ref No : _____ SDG No.: 10051117

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051117-015

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10051441.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/11/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	110	J
50-32-8	Benzo(a)pyrene	94	
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	110	J
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	240	
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	210	
129-00-0	Pyrene	250	

NW
10/1/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-18/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82394 Mod. Ref No.: _____ SDG No.: 10051117

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051117-016

Sample wt/vol: 30.09 (g/mL):g Lab File ID: 10051442.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/11/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

lew
10/1/10

17

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-5/0-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82394 Mod Ref No : _____ SDG No.: 10051117

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051117-017

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10051443.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/11/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	100	J
50-32-8	Benzo(a)pyrene	130	
205-99-2	Benzo(b)fluoranthene	120	J
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	97	J
218-01-9	Chrysene	100	J
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	200	
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	220	
129-00-0	Pyrene	230	

JLW
10/1/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-5/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82394 Mod. Ref No.: _____ SDG No.: 10051117

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051117-018

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10051444.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/11/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

NW
6/11/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-2A-3/0-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82394 Mod Ref No.: _____ SDG No.: 10051117

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051117-019

Sample wt/vol: 30.21 (g/mL):g Lab File ID: 10051445.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/11/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

NW
10/1/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-2A-3/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82395 Mod. Ref No.: _____ SDG No.: 10051117

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051117-020

Sample wt/vol: 30.03 (g/mL):g Lab File ID: 10051503.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/11/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

MW
10/1/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
AOC-2A-7/0-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82395 Mod. Ref No.: _____ SDG No.: 10051117

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051117-021

Sample wt/vol: 30.08 (g/mL):g Lab File ID: 10051504.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/11/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

lw
10/1/10

22

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
AOC-2A-7/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82395 Mod. Ref No : _____ SDG No : 10051117

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051117-022

Sample wt/vol: 30.14 (g/mL):g Lab File ID: 10051505.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/11/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

10/1/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
DUP-AOC-2A-01/0-1

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82395 Mod. Ref No.: _____ SDG No : 10051117

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051117-023

Sample wt/vol: 30.18 (g/mL):g Lab File ID: 10051506.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/11/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	
50-32-8	Benzo(a)pyrene	180	
205-99-2	Benzo(b)fluoranthene	170	J
191-24-2	Benzo(g,h,i)perylene	100	J
207-08-9	Benzo(k)fluoranthene	140	J
218-01-9	Chrysene	190	
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	330	
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	110	J
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	260	
129-00-0	Pyrene	400	

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-AOC-2A-02/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82395 Mod. Ref No.: _____ SDG No : 10051117

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051117-024

Sample wt/vol: 30.06 (g/mL):g Lab File ID: 10051507.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/11/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	220	U
208-96-8	Acenaphthylene	220	U
120-12-7	Anthracene	220	U
56-55-3	Benzo(a)anthracene	220	U
50-32-8	Benzo(a)pyrene	31	U
205-99-2	Benzo(b)fluoranthene	220	U
191-24-2	Benzo(g,h,i)perylene	220	U
207-08-9	Benzo(k)fluoranthene	220	U
218-01-9	Chrysene	220	U
53-70-3	Dibenz(a,h)Anthracene	31	U
206-44-0	Fluoranthene	220	U
86-73-7	Fluorene	220	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	220	U
91-57-6	2-Methylnaphthalene	220	U
91-20-3	Naphthalene	220	U
85-01-8	Phenanthrene	220	U
129-00-0	Pyrene	220	U

MW

ENVIRONMENTAL
Data Services, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051020

Client: ARGO Systems, Glen Burnie, MD Date: September 30, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	R-78/2-4	10051020-001	Soil
2	NR-24/2-4	10051020-002	Soil
3	R-147/2-4	10051020-003	Soil
4	NR-18/2-4	10051020-004	Soil
5	R-58/2-4	10051020-005	Soil
6	1A-54/2-4	10051020-006	Soil
7	1A-25/2-4	10051020-007	Soil
8	1A-52/2-4	10051020-008	Soil
9	1A-57/2-4	10051020-009	Soil
10	1A-42/2-4	10051020-010	Soil
11	1A-46/2-4	10051020-011	Soil
12	1A-53/2-4	10051020-012	Soil
12MS	1A-53/2-4MS	10051020-012MS	Soil
12MSD	1A-53/2-4MSD	10051020-012MSD	Soil
13	1A-29/2-4	10051020-013	Soil
14	1A-41/2-4	10051020-015	Soil
15	1A-43/2-4	10051020-016	Soil
16	1A-11/2-4	10051020-017	Soil
17	1A-37/2-4	10051020-018	Soil
18	R-67/2-4	10051020-019	Soil
19	1A-50/2-4	10051020-020	Soil
20	1A-71/2-4	10051020-021	Soil
21	1A-58/2-4	10051020-022	Soil
22	1A-30/2-4	10051020-023	Soil
23	1A-44/2-4	10051020-024	Soil
24	1A-31/2-4	10051020-025	Soil
25	1A-18/2-4	10051020-026	Soil
25MS	1A-18/2-4MS	10051020-026MS	Soil
25MSD	1A-18/2-4MSD	10051020-026MSD	Soil
26	1A-15/2-4	10051020-027	Soil
27	1A-39/2-4	10051020-028	Soil
28	DUP-05/2-4	10051020-029	Soil
29	DUP-06/2-4	10051020-030	Soil
30	EB-7	10051020-031	Water
31	EB-8	10051020-032	Water

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
32	1A-34/2-4	10051020-033	Soil
33	1A-49/2-4	10051020-034	Soil
34	1A-36/2-4	10051020-035	Soil
35	DUP-07/2-4	10051020-037	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for preserved water and soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
05/12/10	Dibenz(a,h)anthracene	26.8%	None	All ND
	Benzo(g,h,i)perylene	34.2%	None	All ND

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD samples exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level ug/L	Qualifier	Affected Samples
EB-7	None- ND	-	-	-	-
EB-8	None-ND	-	-	-	-

Field Duplicates - Field duplicate results are summarized below.

Compound	IA-43/2-4 ug/kg	DUP-05/2-4 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	R-67/2-4 ug/kg	DUP-06/2-4 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	IA-36/2-4 ug/kg	DUP-07/2-4 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound Quantitation - No discrepancies were identified.

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-78 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82346 Mod. Ref No : _____ SDG No.: 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-001

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10051318.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/12/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/13/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

NW
9/30/10

(1) Cannot be separated from Diphenylamine

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
NR-24 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82346 Mod. Ref No.: _____ SDG No.: 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-002

Sample wt/vol: 30.11 (g/mL): g Lab File ID: 10051315.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/12/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/13/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

mw
9/30/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-147 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82346 Mod. Ref No.: _____ SDG No.: 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-003

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10051317.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/12/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/13/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	30	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	30	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

(1) Cannot be separated from Diphenylamine

NW
9/30/10

SW8270C

4

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-18 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82346 Mod. Ref No.: _____ SDG No : 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-004

Sample wt/vol: 30.13 (g/mL): g Lab File ID: 10051313.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/12/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/13/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	180	U
129-00-0	Pyrene	180	U

NW
9/30/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-58 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82346 Mod. Ref No.: _____ SDG No.: 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-005

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10051316.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/12/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/13/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	180	U
129-00-0	Pyrene	180	U

(1) Cannot be separated from Diphenylamine

MJ 9/30/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
1A-54 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82346 Mod. Ref No.: _____ SDG No.: 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-006

Sample wt/vol: 30.04 (g/mL): g Lab File ID: 10051319.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/12/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/13/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	180	U
129-00-0	Pyrene	180	U

NW
9/30/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-25 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82344 Mod. Ref No.: _____ SDG No.: 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-007

Sample wt/vol: 30.12 (g/mL): g Lab File ID: 10051222.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/12/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/13/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

(1) Cannot be separated from Diphenylamine

lw 9/30/10

SW8270C

8

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-52 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82344 Mod. Ref No : _____ SDG No : 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-008

Sample wt/vol: 30.11 (g/mL): g Lab File ID: 10051213.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/12/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/12/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

hw
9/30/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-57 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82344 Mod. Ref No.: _____ SDG No.: 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-009

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10051214.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/12/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/12/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

hw
9/30/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-42 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82344 Mod. Ref No.: _____ SDG No : 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-010

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10051215.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/12/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/12/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

MW
9/30/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-46 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82344 Mod Ref No.: _____ SDG No : 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-011

Sample wt/vol: 30.21 (g/mL):g Lab File ID: 10051216.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/12/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/12/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

NW
9/30/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-53 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82346 Mod. Ref No.: _____ SDG No.: 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-012

Sample wt/vol: 30.15 (g/mL): g Lab File ID: 10051314.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/12/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/13/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

NW
9/30/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
1A-29 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82344 Mod Ref No.: _____ SDG No.: 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-013

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10051220.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/12/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/12/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

(1) Cannot be separated from Diphenylamine

LW 9/30/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
1A-41 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82344 Mod. Ref No : _____ SDG No : 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-015

Sample wt/vol: 30.14 (g/mL): g Lab File ID: 10051217.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/12/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/12/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

MW
9/30/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
1A-43 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82346 Mod Ref No.: _____ SDG No.: 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-016

Sample wt/vol: 30.13 (g/mL): g Lab File ID: 10051320.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/12/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/13/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	180	U
129-00-0	Pyrene	180	U

(1) Cannot be separated from Diphenylamine

nw
9/30/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
1A-11 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82344 Mod Ref No.: _____ SDG No : 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-017

Sample wt/vol: 30.17 (g/mL):g Lab File ID: 10051219.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/12/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/12/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

NW
9/30/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-37 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82344 Mod. Ref No.: _____ SDG No : 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-018

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10051218.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/12/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/12/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	25	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	25	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	180	U
129-00-0	Pyrene	180	U

NW
9/30/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-67 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82346 Mod. Ref No.: _____ SDG No.: 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-019

Sample wt/vol: 30.14 (g/mL): g Lab File ID: 10051330.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

AW
9/30/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-50 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82346 Mod. Ref No.: _____ SDG No : 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-020

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10051331.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

(1) Cannot be separated from Diphenylamine

WW
9/30/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-71 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82346 Mod Ref No : _____ SDG No.: 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-021

Sample wt/vol: 30.12 (g/mL): g Lab File ID: 10051332.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

NW
9/30/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
1A-58 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82346 Mod. Ref No : _____ SDG No.: 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-022

Sample wt/vol: 30.15 (g/mL): g Lab File ID: 10051333.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

nW
9/30/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-30 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82346 Mod. Ref No.: _____ SDG No : 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-023

Sample wt/vol: 30.18 (g/mL): g Lab File ID: 10051334.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

MW
9/30/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-44 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82359 Mod. Ref No : _____ SDG No.: 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-024

Sample wt/vol: 30.21 (g/mL): g Lab File ID: 10051337.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	25	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	25	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	180	U
129-00-0	Pyrene	180	U

(1) Cannot be separated from Diphenylamine

NW
9/30/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
1A-31 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82359 Mod. Ref No.: _____ SDG No : 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-025

Sample wt/vol: 30.19 (g/mL): g Lab File ID: 10051338.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

NW
9/30/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-18 / 2-4 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82346 Mod. Ref No.: _____ SDG No.: 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-026

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10051329.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	25	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	25	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	180	U
129-00-0	Pyrene	180	U

(1) Cannot be separated from Diphenylamine

hew
9/30/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-15 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82359 Mod Ref No.: _____ SDG No : 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-027

Sample wt/vol: 30.14 (g/mL):g Lab File ID: 10051339.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

NW
9/30/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
1A-39 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82359 Mod. Ref No : _____ SDG No : 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-028

Sample wt/vol: 30.03 (g/mL): g Lab File ID: 10051340.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	30	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	30	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

(1) Cannot be separated from Diphenylamine

NW
9/30/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-05 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82359 Mod. Ref No : _____ SDG No.: 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-029

Sample wt/vol: 30.02 (g/mL): g Lab File ID: 10051341.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	25	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	25	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	180	U
129-00-0	Pyrene	180	U

MW
9/30/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-06 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82359 Mod. Ref No : _____ SDG No : 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-030

Sample wt/vol: 30.15 (g/mL): g Lab File ID: 10051342.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

(1) Cannot be separated from Diphenylamine

NW
9/30/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
EB-7

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82363 Mod. Ref No.: _____ SDG No : 10051020

Matrix : (SOIL/SED/WATER) WATER Lab Sample Id: 10051020-031

Sample wt/vol: 1000 (g/mL): ml Lab File ID: 10051310.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) CLEAR Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/13/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
83-32-9	Acenaphthene	5	U
208-96-8	Acenaphthylene	5	U
120-12-7	Anthracene	5	U
56-55-3	Benzo(a)anthracene	0.5	U
50-32-8	Benzo(a)pyrene	0.5	U
205-99-2	Benzo(b)fluoranthene	0.5	U
191-24-2	Benzo(g,h,i)perylene	5	U
207-08-9	Benzo(k)fluoranthene	0.5	U
218-01-9	Chrysene	2	U
53-70-3	Dibenz(a,h)Anthracene	0.5	U
206-44-0	Fluoranthene	5	U
86-73-7	Fluorene	5	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.5	U
91-57-6	2-Methylnaphthalene	2	U
91-20-3	Naphthalene	0.5	U
85-01-8	Phenanthrene	5	U
129-00-0	Pyrene	5	U

MW
9/30/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
EB-8

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82363 Mod. Ref No.: _____ SDG No.: 10051020

Matrix : (SOIL/SED/WATER) WATER Lab Sample Id: 10051020-032

Sample wt/vol: 1000 (g/mL): ml Lab File ID: 10051311.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) CLEAR Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/13/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
83-32-9	Acenaphthene	5	U
208-96-8	Acenaphthylene	5	U
120-12-7	Anthracene	5	U
56-55-3	Benzo(a)anthracene	0.5	U
50-32-8	Benzo(a)pyrene	0.5	U
205-99-2	Benzo(b)fluoranthene	0.5	U
191-24-2	Benzo(g,h,i)perylene	5	U
207-08-9	Benzo(k)fluoranthene	0.5	U
218-01-9	Chrysene	2	U
53-70-3	Dibenz(a,h)Anthracene	0.5	U
206-44-0	Fluoranthene	5	U
86-73-7	Fluorene	5	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.5	U
91-57-6	2-Methylnaphthalene	2	U
91-20-3	Naphthalene	0.5	U
85-01-8	Phenanthrene	5	U
129-00-0	Pyrene	5	U

(1) Cannot be separated from Diphenylamine

NW 9/30/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
1A-34 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82359 Mod Ref No.: _____ SDG No.: 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-033

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10051343.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	180	U
129-00-0	Pyrene	180	U

NW
9/30/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-49 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82359 Mod. Ref No : _____ SDG No.: 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-034

Sample wt/vol: 30.08 (g/mL): g Lab File ID: 10051344.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	25	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	25	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	180	U
129-00-0	Pyrene	180	U

LW
9/30/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-36 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82359 Mod. Ref No.: _____ SDG No.: 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-035

Sample wt/vol: 30.01 (g/mL): g Lab File ID: 10051345.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

RW
9/30/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-07 / 2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82359 Mod. Ref No.: _____ SDG No.: 10051020

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10051020-037

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10051346.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/10/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

(1) Cannot be separated from Diphenylamine

MW
9/30/10

ENVIRONMENTAL
Data Services, Inc.

METALS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10051020

Client: ARGO Systems, Glen Burnie, MD Date: September 30, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	EB-7	10051020-031	Water
2	EB-8	10051020-032	Water

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level ug/L	Qualifier	Affected Samples
EB-7	Chromium	0.6	3.0	None	To be applied to other data packages
	Copper	0.6	3.0	None	
	Zinc	13	65	None	
EB-8	Copper	0.7	3.5	None	
	Zinc	13	65	None	

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier	Affected Samples
Reference	Selenium	64%/OK/OK	L/UL	All samples

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate samples were not analyzed.

Compound Quantitation - All criteria were met.

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB-7

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No : 10051020

Matrix (soil/water): WATER Lab Sample ID: 10051020-031

Level (low/med): LOW Date Received: 05/10/2010

% Solids: _____ Batch #: 82320

Concentration Units (ug/ L or mg/kg dry weight) UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	1.0	U		MS
7440-38-2	Arsenic	1.0	U		MS
7440-41-7	Beryllium	0.5	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-47-3	Chromium	0.6	J		MS
7440-50-8	Copper	0.6	J		MS
7439-92-1	Lead	1.0	U		MS
7439-97-6	Mercury	0.20	U		MS
7440-02-0	Nickel	1.0	U		MS
7782-49-2	Selenium	1.0	~~U~~	~~N~~	MS UL
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	1.0	U		MS
7440-66-6	Zinc	13	J		MS

Color Before BLACK Clarity Before _____ Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments: _____

LW
9/30/10

2

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB-8

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10051020

Matrix (soil/water): WATER Lab Sample ID: 10051020-032

Level (low/med): LOW Date Received: 05/10/2010

% Solids: _____ Batch #: 82320

Concentration Units (ug/ L or mg/kg dry weight) UG/L

CAS No	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	1.0	U		MS
7440-38-2	Arsenic	1.0	U		MS
7440-41-7	Beryllium	0.5	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-47-3	Chromium	1.0	U		MS
7440-50-8	Copper	0.7	J		MS
7439-92-1	Lead	1.0	U		MS
7439-97-6	Mercury	0.20	U		MS
7440-02-0	Nickel	1.0	U		MS
7782-49-2	Selenium	1.0	~~U~~	~~N~~	MS UL
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	1.0	U		MS
7440-66-6	Zinc	13	J		MS

Color Before BLACK Clarity Before _____ Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments: _____

nw
9/30/10

ENVIRONMENTAL
Data Services, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10050709

Client: ARGO Systems, Glen Burnie, MD Date: October 7, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	R-50/2-4	10050709-001	Soil
2	R-95/2-4	10050709-002	Soil
2MS	R-95/2-4MS	10050709-002MS	Soil
2MSD	R-95/2-4MSD	10050709-002MSD	Soil
3	R-112/2-4	10050709-003	Soil
4	R-110/2-4	10050709-004	Soil
5	NR-14/2-4	10050709-005	Soil
6	NR-22/2-4	10050709-006	Soil
7	IA-47/2-4	10050709-007	Soil
8	R-94/2-4	10050709-008	Soil
9	IA-48/2-4	10050709-009	Soil
10	IA-72/2-4	10050709-010	Soil
11	IA-32/2-4	10050709-011	Soil
12	IA-55/2-4	10050709-012	Soil
13	R-61/2-4	10050709-013	Soil
14	R-48/2-4	10050709-014	Soil
15	R-72/2-4	10050709-015	Soil
16	DUP-03/2-4	10050709-016	Soil
17	DUP-04/2-4	10050709-017	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - All samples exhibited acceptable surrogate recoveries except the following.

Sample ID	Surrogate	%R	Qualifier
4	S3=Nitrobenzene-d5	99%	None for one out per fraction
	S6=2,4,6-Tribromophenol	118%	

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	R-94/2-4 ug/kg	DUP-03/2-4 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	R-50/2-4 ug/kg	DUP-04/2-4 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound Quantitation - No discrepancies were identified.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

R-50/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82307 Mod Ref No.: _____ SDG No.: 10050709

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050709-001

Sample wt/vol: 30.02 (g/mL): g Lab File ID: 10051107.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/07/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/11/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

RW 10/7/10

2

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-95/2-4 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82307 Mod Ref No.: _____ SDG No.: 10050709

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050709-002

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10051108.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/07/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/11/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

MW 10/7/10

(1) Cannot be separated from Diphenylamine

SW8270C

3

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-112/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82307 Mod. Ref No.: _____ SDG No : 10050709

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050709-003

Sample wt/vol: 30.13 (g/mL): g Lab File ID: 10051111.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/07/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/11/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	41	
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

MW 10/7/10

4

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-110/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82307 Mod. Ref No : _____ SDG No : 10050709

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050709-004

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10051112.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 4 Decanted: (Y/N) N Date Received: 05/07/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/11/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	170	U
208-96-8	Acenaphthylene	170	U
120-12-7	Anthracene	170	U
56-55-3	Benzo(a)anthracene	170	U
50-32-8	Benzo(a)pyrene	24	U
205-99-2	Benzo(b)fluoranthene	170	U
191-24-2	Benzo(g,h,i)perylene	170	U
207-08-9	Benzo(k)fluoranthene	170	U
218-01-9	Chrysene	170	U
53-70-3	Dibenz(a,h)Anthracene	24	U
206-44-0	Fluoranthene	170	U
86-73-7	Fluorene	170	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	170	U
91-57-6	2-Methylnaphthalene	170	U
91-20-3	Naphthalene	170	U
85-01-8	Phenanthrene	170	U
129-00-0	Pyrene	170	U

NW 10/7/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-14/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82307 Mod Ref No : _____ SDG No : 10050709

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050709-005

Sample wt/vol: 30.11 (g/mL): g Lab File ID: 10051113.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/07/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/11/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

NW 10/7/10

6

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-22/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82307 Mod. Ref No : _____ SDG No : 10050709

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050709-006

Sample wt/vol: 30.02 (g/mL): g Lab File ID: 10051114.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/07/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/11/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

NW 10/7/10

(1) Cannot be separated from Diphenylamine

SW8270C

7

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-47/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82307 Mod. Ref No.: _____ SDG No.: 10050709

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050709-007

Sample wt/vol: 30.01 (g/mL): g Lab File ID: 10051115.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/07/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/11/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

lw 10/7/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-94/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82307 Mod. Ref No.: _____ SDG No.: 10050709

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050709-008

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10051116.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/07/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/11/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

NW 10/7/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-48/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82307 Mod. Ref No : _____ SDG No.: 10050709

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050709-009

Sample wt/vol: 30.07 (g/mL): g Lab File ID: 10051117.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/07/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/11/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

NW 10/7/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-72/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82307 Mod. Ref No.: _____ SDG No : 10050709

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050709-010

Sample wt/vol: 30.15 (g/mL): g Lab File ID: 10051118.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/07/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/11/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

NW 10/7/10

(1) Cannot be separated from Diphenylamine

11

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
1A-32/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82307 Mod. Ref No : _____ SDG No.: 10050709

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050709-011

Sample wt/vol: 30.07 (g/mL): g Lab File ID: 10051119.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/07/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/11/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

MW 10/7/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
1A-55/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82307 Mod. Ref No.: _____ SDG No.: 10050709

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050709-012

Sample wt/vol: 30.16 (g/mL): g Lab File ID: 10051120.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/07/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/11/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/12/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

MW 10/7/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-61/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82307 Mod. Ref No : _____ SDG No : 10050709

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050709-013

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10051121.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/07/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/11/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/12/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

NW 10/7/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-48/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82307 Mod. Ref No : _____ SDG No.: 10050709

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050709-014

Sample wt/vol: 30.19 (g/mL): g Lab File ID: 10051122.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/07/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/11/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/12/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	140	J
208-96-8	Acenaphthylene	220	U
120-12-7	Anthracene	160	J
56-55-3	Benzo(a)anthracene	260	
50-32-8	Benzo(a)pyrene	180	
205-99-2	Benzo(b)fluoranthene	140	J
191-24-2	Benzo(g,h,i)perylene	140	J
207-08-9	Benzo(k)fluoranthene	170	J
218-01-9	Chrysene	330	
53-70-3	Dibenz(a,h)Anthracene	54	
206-44-0	Fluoranthene	560	
86-73-7	Fluorene	160	J
193-39-5	Indeno(1,2,3-c,d)Pyrene	130	J
91-57-6	2-Methylnaphthalene	220	U
91-20-3	Naphthalene	140	J
85-01-8	Phenanthrene	980	
129-00-0	Pyrene	850	

NW 10/7/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-72/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82307 Mod. Ref No.: _____ SDG No.: 10050709

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050709-015

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10051123.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/07/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/11/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/12/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

KW 10/7/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-03/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82307 Mod. Ref No : _____ SDG No.: 10050709

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050709-016

Sample wt/vol: 30.01 (g/mL): g Lab File ID: 10051124.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/07/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/11/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/12/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

UW 10/7/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-04/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82307 Mod. Ref No : _____ SDG No.: 10050709

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050709-017

Sample wt/vol: 30.04 (g/mL): g Lab File ID: 10051125.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/07/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/11/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/12/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

nw 10/7/10

ENVIRONMENTAL
Data Services, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10050624

Client: ARGO Systems, Glen Burnie, MD Date: October 7, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	R-63/2-4	10050624-001	Soil
1MS	R-63/2-4MS	10050624-001MS	Soil
1MSD	R-63/2-4MSD	10050624-001MSD	Soil
2	R-70/2-4	10050624-002	Soil
3	R-80/2-4	10050624-003	Soil
4	NR-5/2-4	10050624-004	Soil
5	NR-8/2-4	10050624-005	Soil
6	NR-11/2-4	10050624-006	Soil
7	NR-21/2-4	10050624-007	Soil
8	NR-31/2-4	10050624-008	Soil
9	NR-51/2-4	10050624-009	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate samples were not analyzed.

Compound Quantitation - No discrepancies were identified.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

R-63/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82273 Mod. Ref No.: _____ SDG No.: 10050624

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050624-001

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10051017.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/06/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/10/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/10/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

QW 10/7/10

2

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-70/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82273 Mod Ref No.: _____ SDG No : 10050624

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050624-002

Sample wt/vol: 30.15 (g/mL): g Lab File ID: 10051018.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/06/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/10/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/10/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

MW 10/7/10

(1) Cannot be separated from Diphenylamine

SW8270C

3

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-80/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82273 Mod. Ref No.: _____ SDG No.: 10050624

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050624-003

Sample wt/vol: 30.14 (g/mL): g Lab File ID: 10051019.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/06/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/10/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/10/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

NW 10/7/10

4

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

NR-5/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82273 Mod. Ref No : _____ SDG No : 10050624

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050624-004

Sample wt/vol: 30.12 (g/mL): g Lab File ID: 10051020.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/06/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/10/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/10/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

MW 10/7/10

(1) Cannot be separated from Diphenylamine

SW8270C

5

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
NR-8/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82273 Mod. Ref No.: _____ SDG No.: 10050624

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050624-005

Sample wt/vol: 30.03 (g/mL): g Lab File ID: 10051021.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/06/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/10/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/10/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

MW 10/7/10

6

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-11/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82273 Mod Ref No : _____ SDG No.: 10050624

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050624-006

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10051022.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/06/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/10/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/10/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

MW 10/7/10

(1) Cannot be separated from Diphenylamine

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-21/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82319 Mod. Ref No : _____ SDG No : 10050624

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050624-007

Sample wt/vol: 30.14 (g/mL): g Lab File ID: 10051212.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/06/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/11/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/12/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

MW 10/7/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-31/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82319 Mod. Ref No.: _____ SDG No.: 10050624

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050624-008

Sample wt/vol: 30.17 (g/mL): g Lab File ID: 10051210.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/06/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/11/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/12/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	30	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	30	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

(1) Cannot be separated from Diphenylamine

UW 10/7/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
NR-51/2-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82319 Mod. Ref No : _____ SDG No.: 10050624

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050624-009

Sample wt/vol: 30.08 (g/mL):g Lab File ID: 10051211.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/06/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/11/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/12/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	30	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	30	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

HW 10/7/10

ENVIRONMENTAL
Data Services, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10050622

Client: ARGO Systems, Glen Burnie, MD Date: October 7, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	DUP-26	10050622-002	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - The sample was extracted within 14 days and analyzed within 40 days.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - The sample exhibited acceptable surrogate recoveries.

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	1A-29 ug/kg	DUP-26 ug/kg	RPD	Qualifier
Acenaphthene	130	150	14%	None
Anthracene	270	330	20%	None
Benzo(a)anthracene	810	820	1%	None
Benzo(a)pyrene	780	740	5%	None
Benzo(b)fluoranthene	640	630	2%	None
Benzo(g,h,i)perylene	390	340	14%	None
Benzo(k)fluoranthene	550	540	2%	None
Chrysene	850	840	1%	None
Dibenz(a,h)anthracene	81	75	8%	None
Fluoranthene	1300	1400	7%	None
Fluorene	110	140	24%	None
Indeno(1,2,3-cd)pyrene	390	340	14%	None
Phenanthrene	1200	1300	8%	None
Pyrene	2000	1900	5%	None

Compound Quantitation - No discrepancies were identified.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-26

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82240 Mod. Ref No.: _____ SDG No.: 10050622

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050622-002

Sample wt/vol: 30.13 (g/mL): g Lab File ID: 10050730.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/07/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/08/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	150	J
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	330	
56-55-3	Benzo(a)anthracene	820	
50-32-8	Benzo(a)pyrene	740	
205-99-2	Benzo(b)fluoranthene	630	
191-24-2	Benzo(g,h,i)perylene	340	
207-08-9	Benzo(k)fluoranthene	540	
218-01-9	Chrysene	840	
53-70-3	Dibenz(a,h)Anthracene	75	
206-44-0	Fluoranthene	1,400	
86-73-7	Fluorene	140	J
193-39-5	Indeno(1,2,3-c,d)Pyrene	340	
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	1,300	
129-00-0	Pyrene	1,900	

10/7/10

ENVIRONMENTAL
Data Services, Inc.

MANGANESE & VANADIUM
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10050622

Client: ARGO Systems, Glen Burnie, MD Date: October 7, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	IA-39	10050622-001	Soil

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - The sample was prepared and analyzed within 180 days for all metals.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The matrix spike/duplicate (reference) sample exhibited acceptable %R and RPD values.

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate samples were not analyzed.

Compound Quantitation - No discrepancies were identified.

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A-39

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10050622

Matrix (soil/water): SOIL Lab Sample ID: 10050622-001

Level (low/med): LOW Date Received: 05/03/2010

% Solids: 65 Batch #: 82295 /82305

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-96-5	Manganese	990			MS
7440-62-2	Vanadium	38			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

RW 10/7/10

FORM IA - IN SW6020

ENVIRONMENTAL
Data Services, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10050501

Client: ARGO Systems, Glen Burnie, MD Date: August 17, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: [redacted] (b) (4)

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	R-43	10050501-001	Soil
2	R-44	10050501-002	Soil
3	NR-10	10050501-003	Soil
4	NR-12	10050501-004	Soil
5	NR-17	10050501-005	Soil
6	DUP-02/2-4	10050501-006	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	R-44 ug/kg	DUP-02/2-4 ug/kg	RPD	Qualifier
Benzo(a)anthracene	130	130	0%	None
Benzo(a)pyrene	110	110	0%	None
Benzo(g,h,i)perylene	200 U	160	NC	None
Chrysene	140	140	0%	None
Dibenz(a,h)Anthracene	28 U	76	NC	None
Fluoranthene	240	220	9%	None
Indeno(1,2,3-cd)Pyrene	200 U	110	NC	None
Phenanthrene	240	200	18%	None
Pyrene	270	270	0%	None

Compound Quantitation - EDS sample ID# 4 was analyzed at a 10X dilution due to high concentrations of target compounds.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-43

Lab Name : _____ Contract: 1462309

Lab Code : Y Case No.: 82273 Mod. Ref No.: _____ SDG No.: 10050501

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050501-001

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10051030.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/05/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/10/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	30	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	30	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

lw 8/17/10

SW8270C

2

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-44

Lab Name : _____ Contract: 1462309

Lab Code : Y Case No.: 82273 Mod. Ref No : _____ SDG No : 10050501

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050501-002

Sample wt/vol: 30.14 (g/mL): g Lab File ID: 10051031.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/05/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/10/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	130	J
50-32-8	Benzo(a)pyrene	110	
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	140	J
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	240	
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	240	
129-00-0	Pyrene	270	

NW
8/17/10

(1) Cannot be separated from Diphenylamine

SW8270C

3

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
NR-10

Lab Name : _____ Contract: 1462309

Lab Code : Y Case No.: 82273 Mod Ref No : _____ SDG No.: 10050501

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050501-003

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10051032.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/05/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/10/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

NW
8/17/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-12

Lab Name : _____ Contract: 1462309

Lab Code : Y Case No : 82286 Mod. Ref No : _____ SDG No : 10050501

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050501-004

Sample wt/vol: 30.21 (g/mL): g Lab File ID: 10051109.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 36 Decanted: (Y/N) N Date Received: 05/05/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/10/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	2,600	U
208-96-8	Acenaphthylene	2,600	U
120-12-7	Anthracene	1,900	J
56-55-3	Benzo(a)anthracene	26,000	
50-32-8	Benzo(a)pyrene	20,000	
205-99-2	Benzo(b)fluoranthene	26,000	
191-24-2	Benzo(g,h,i)perylene	12,000	
207-08-9	Benzo(k)fluoranthene	21,000	
218-01-9	Chrysene	26,000	
53-70-3	Dibenz(a,h)Anthracene	3,600	
206-44-0	Fluoranthene	28,000	
86-73-7	Fluorene	2,600	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	14,000	
91-57-6	2-Methylnaphthalene	2,600	U
91-20-3	Naphthalene	2,600	U
85-01-8	Phenanthrene	11,000	
129-00-0	Pyrene	35,000	

MW
8/17/10

(1) Cannot be separated from Diphenylamine

SW8270C

5

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-17

Lab Name : _____ Contract: 1462309

Lab Code : Y Case No : 82273 Mod. Ref No : _____ SDG No : 10050501

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050501-005

Sample wt/vol: 30.12 (g/mL): g Lab File ID: 10051033.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/05/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/10/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

MW
8/17/10

SW8270C

6

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-02/2-4

Lab Name : _____ Contract: 1462309

Lab Code : Y Case No.: 82286 Mod. Ref No : _____ SDG No : 10050501

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050501-006

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10051107.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/05/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/10/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	130	J
50-32-8	Benzo(a)pyrene	110	
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	160	J
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	140	J
53-70-3	Dibenz(a,h)Anthracene	76	
206-44-0	Fluoranthene	220	
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	110	J
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	J
129-00-0	Pyrene	270	

NW
8/17/10

(1) Cannot be separated from Diphenylamine

SW8270C

ENVIRONMENTAL
Data Services, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10050401

Client: ARGO Systems, Glen Burnie, MD Date: August 17, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	R-173/2-4	10050401-001	Soil
2	NR-62/2-4	10050401-002	Soil
3	R-172/2-4	10050401-003	Soil
4	NR-64/2-4	10050401-004	Soil
5	R-53/2-4	10050401-005	Soil
6	R-150/2-4	10050401-006	Soil
7	NR-47/2-4	10050401-007	Soil
8	NR-50/2-4	10050401-008	Soil
9	NR-53/2-4	10050401-009	Soil
10	R-97/2-4	10050401-010	Soil
10MS	R-97/2-4MS	10050401-010MS	Soil
10MSD	R-97/2-4MSD	10050401-010MSD	Soil
11	NR-41/2-4	10050401-011	Soil
12	NR-49/2-4	10050401-012	Soil
13	R-64/2-4	10050401-013	Soil
14	R-62/2-4	10050401-014	Soil
15	DUP-01/2-4	10050401-015	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	R-62/2-4 ug/kg	DUP-01/2-4 ug/kg	RPD	Qualifier
All compounds	ND	ND	-	-

Compound Quantitation - No discrepancies were identified.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-173 / 2-4

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1467309

Lab Code : PHASE Case No : 82230 Mod. Ref No.: _____ SDG No.: 10050401

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050401-001

Sample wt/vol: 30.03 (g/mL):g Lab File ID: 10050628.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/04/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/06/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/07/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

LW 8/17/10

SW8270C

2

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
NR-62 / 2-4

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1467309

Lab Code : PHASE Case No.: 82230 Mod Ref No : _____ SDG No.: 10050401

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050401-002

Sample wt/vol: 30.15 (g/mL):g Lab File ID: 10050629.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/04/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/06/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/07/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	180	U
129-00-0	Pyrene	180	U

NW
8/17/10

(1) Cannot be separated from Diphenylamine

SW8270C

3

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-172 / 2-4

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1467309

Lab Code : PHASE Case No : 82230 Mod Ref No : _____ SDG No.: 10050401

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050401-003

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10050641.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/04/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/06/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/07/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	100	J
56-55-3	Benzo(a)anthracene	1,100	
50-32-8	Benzo(a)pyrene	1,000	
205-99-2	Benzo(b)fluoranthene	820	
191-24-2	Benzo(g,h,i)perylene	350	
207-08-9	Benzo(k)fluoranthene	890	
218-01-9	Chrysene	990	
53-70-3	Dibenz(a,h)Anthracene	65	
206-44-0	Fluoranthene	1,200	
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	430	
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	380	
129-00-0	Pyrene	1,500	

NW 8/17/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-64 / 2-4

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1467309

Lab Code : PHASE Case No : 82230 Mod Ref No : _____ SDG No : 10050401

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050401-004

Sample wt/vol: 32.08 (g/mL):g Lab File ID: 10050630.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/04/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/06/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/07/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	170	U
208-96-8	Acenaphthylene	170	U
120-12-7	Anthracene	170	U
56-55-3	Benzo(a)anthracene	170	U
50-32-8	Benzo(a)pyrene	24	U
205-99-2	Benzo(b)fluoranthene	170	U
191-24-2	Benzo(g,h,i)perylene	170	U
207-08-9	Benzo(k)fluoranthene	170	U
218-01-9	Chrysene	170	U
53-70-3	Dibenz(a,h)Anthracene	24	U
206-44-0	Fluoranthene	170	U
86-73-7	Fluorene	170	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	170	U
91-57-6	2-Methylnaphthalene	170	U
91-20-3	Naphthalene	170	U
85-01-8	Phenanthrene	170	U
129-00-0	Pyrene	170	U

nw
8/17/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-53 / 2-4

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1467309

Lab Code : PHASE Case No.: 82230 Mod. Ref No : _____ SDG No.: 10050401

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050401-005

Sample wt/vol: 30.15 (g/mL):g Lab File ID: 10050631.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/04/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/06/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/07/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

LW 8/17/10

SW8270C

6

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-150 / 2-4

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1467309

Lab Code : PHASE Case No.: 82230 Mod. Ref No.: _____ SDG No.: 10050401

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050401-006

Sample wt/vol: 30.01 (g/mL):g Lab File ID: 10050632.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7 Decanted: (Y/N) N Date Received: 05/04/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/06/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/07/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	25	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	25	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	180	U
129-00-0	Pyrene	180	U

NW
8/13/10

(1) Cannot be separated from Diphenylamine

SW8270C

7

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
NR-47 / 2-4

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1467309

Lab Code : PHASE Case No.: 82230 Mod. Ref No.: _____ SDG No.: 10050401

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050401-007

Sample wt/vol: 30.18 (g/mL):g Lab File ID: 10050633.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/04/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/06/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/07/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

NW
8/17/10

SW8270C

8

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-50 / 2-4

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1467309

Lab Code : PHASE Case No.: 82230 Mod. Ref No.: _____ SDG No.: 10050401

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050401-008

Sample wt/vol: 30.21 (g/mL):g Lab File ID: 10050634.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/04/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/06/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/07/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

MW
8/17/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
NR-53 / 2-4

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1467309

Lab Code : PHASE Case No.: 82230 Mod. Ref No.: _____ SDG No : 10050401

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050401-009

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10050635.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/04/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/06/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/07/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	180	U
129-00-0	Pyrene	180	U

NW
8/17/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-97 / 2-4 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1467309

Lab Code : PHASE Case No.: 82230 Mod. Ref No.: _____ SDG No : 10050401

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050401-010

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10050627.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/04/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/06/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/07/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	35	
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	180	U
129-00-0	Pyrene	180	U

kw
8/12/10

(1) Cannot be separated from Diphenylamine

SW8270C

11

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-41 / 2-4

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1467309

Lab Code : PHASE Case No.: 82230 Mod. Ref No.: _____ SDG No.: 10050401

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050401-011

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10050636.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/04/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/06/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/07/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

nw
8/17/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-49 / 2-4

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1467309

Lab Code : PHASE Case No : 82230 Mod. Ref No.: _____ SDG No : 10050401

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050401-012

Sample wt/vol: 30.17 (g/mL): g Lab File ID: 10050637.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/04/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/06/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/07/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

NW
8/17/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-64 / 2-4

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1467309

Lab Code : PHASE Case No.: 82230 Mod. Ref No.: _____ SDG No.: 10050401

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050401-013

Sample wt/vol: 30.06 (g/mL):g Lab File ID: 10050638.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/04/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/06/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/07/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

8/17/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-62 / 2-4

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1467309

Lab Code : PHASE Case No.: 82230 Mod. Ref No.: _____ SDG No.: 10050401

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050401-014

Sample wt/vol: 30.14 (g/mL): g Lab File ID: 10050639.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/04/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/06/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/07/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

QCW
8/17/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-01 / 2-4

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1467309

Lab Code : PHASE Case No.: 82230 Mod Ref No.: _____ SDG No : 10050401

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050401-015

Sample wt/vol: 30.16 (g/mL): g Lab File ID: 10050640.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/04/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/06/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/07/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

lw
8/17/10

ENVIRONMENTAL
Data Services, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10050309

Client: ARGO Systems, Glen Burnie, MD Date: August 17, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	1A-11	10050309-001	Soil
2	1A-15	10050309-002	Soil
3	1A-25	10050309-003	Soil
4	1A-28	10050309-004	Soil
4MS	1A-28MS	10050309-004MS	Soil
4MSD	1A-28MSD	10050309-004MSD	Soil
5	1A-29	10050309-005	Soil
6	1A-30	10050309-006	Soil
7	1A-36	10050309-008	Soil
8	1A-37	10050309-009	Soil
8MS	1A-37MS	10050309-009MS	Soil
8MSD	1A-37MSD	10050309-009MSD	Soil
9	1A-39	10050309-010	Soil
10	1A-41	10050309-011	Soil
11	1A-42	10050309-012	Soil
12	1A-43	10050309-013	Soil
13	1A-46	10050309-014	Soil
14	1A-50	10050309-015	Soil
15	1A-52	10050309-016	Soil
16	1A-53	10050309-017	Soil
17	1A-54	10050309-018	Soil
18	1A-55	10050309-019	Soil
19	1A-57	10050309-020	Soil
20	1A-58	10050309-021	Soil
21	1A-65	10050309-025	Soil
22	1A-71	10050309-027	Soil
23	1A-72	10050309-028	Soil
24	DUP-27	10050309-036	Soil
25	DUP-28	10050309-037	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - All samples exhibited acceptable surrogate recoveries except the following.

Sample ID	Surrogate	%R	Qualifier
8	S1=2-Fluorobiphenyl	136%	J- All compounds positives
	S3=Nitrobenzene-d5	114%	
10	S1=2-Fluorobiphenyl	119%	None for only 1 out
25	S1=2-Fluorobiphenyl	126%	J- All compounds positives
	S3=Nitrobenzene-d5	102%	

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier
8	Fluoranthene	OK/OK/65	None for RPD only
	Pyrene	OK/OK/36	None for RPD only

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria except the following.

Sample ID	Internal Standard	Area Count	Qualifier
1	IS5=Chrysene-d12	Low	J/UJ
	IS6=Perylene-d12	Low	J/UJ
7	IS5=Chrysene-d12	Low	J/UJ
	IS6=Perylene-d12	Severely Low	J/R
11	IS5=Chrysene-d12	Low	J/UJ
	IS6=Perylene-d12	Low	J/UJ
19	IS5=Chrysene-d12	Low	J/UJ
	IS6=Perylene-d12	Low	J/UJ

Method Blank - The method blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

Compound	1A-37 ug/kg	DUP-27 ug/kg	RPD	Qualifier
Benzo(a)anthracene	1500	2300	42%	None
Benzo(a)pyrene	1400	2100	40%	None
Benzo(b)fluoranthene	1500	2100	33%	None
Benzo(g,h,i)perylene	1700 U	1200	NC	None
Benzo(k)fluoranthene	1200	1700	34%	None
Chrysene	1500	2400	46%	None
Dibenz(a,h)Anthracene	240 U	290	NC	None
Fluoranthene	2600	4500	54%	None
Indeno(1,2,3-cd)Pyrene	1700 U	1200	NC	None
Phenanthrene	1600	3500	75%	None
Pyrene	3500	5500	44%	None

Compound	1A-54 ug/kg	DUP-28 ug/kg	RPD	Qualifier
Acenaphthene	180	350	64%	None
Anthracene	300	660	75%	None
Benzo(a)anthracene	700	1300	60%	None
Benzo(a)pyrene	540	980	58%	None
Benzo(b)fluoranthene	490	820	50%	None
Benzo(g,h,i)perylene	220	430	65%	None
Benzo(k)fluoranthene	410	760	60%	None
Chrysene	740	1300	55%	None
Dibenz(a,h)Anthracene	55	110	67%	None
Fluoranthene	1200	1900	45%	None
Fluorene	270	590	74%	None
Indeno(1,2,3-cd)Pyrene	240	460	63%	None
2-Methylnaphthalene	150	360	82%	None
Naphthalene	130	420	105%	None
Phenanthrene	1700	3100	58%	None
Pyrene	1800	3300	59%	None

Compound Quantitation - Several samples were analyzed at a 10X dilution due to high concentrations of target compounds.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-11

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No : 82156 Mod. Ref No.: _____ SDG No.: 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-001

Sample wt/vol: 30.04 (g/mL): g Lab File ID: 10050509.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/03/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/05/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	210	U	
208-96-8	Acenaphthylene	210	U	
120-12-7	Anthracene	210	U	
56-55-3	Benzo(a)anthracene	210		J
50-32-8	Benzo(a)pyrene	200		J
205-99-2	Benzo(b)fluoranthene	200	~~J~~	J
191-24-2	Benzo(g,h,i)perylene	100	~~J~~	J
207-08-9	Benzo(k)fluoranthene	190	~~J~~	J
218-01-9	Chrysene	230		J
53-70-3	Dibenz(a,h)Anthracene	30		J
206-44-0	Fluoranthene	340		
86-73-7	Fluorene	210	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	110	~~J~~	J
91-57-6	2-Methylnaphthalene	210	U	
91-20-3	Naphthalene	210	U	
85-01-8	Phenanthrene	300		
129-00-0	Pyrene	680		J

MW 8/17/10

SW8270C

2

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-15

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No : 82149 Mod. Ref No : _____ SDG No.: 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-002

Sample wt/vol: 30.07 (g/mL): g Lab File ID: 10050405.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/03/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/04/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	96	J
56-55-3	Benzo(a)anthracene	240	
50-32-8	Benzo(a)pyrene	190	
205-99-2	Benzo(b)fluoranthene	170	J
191-24-2	Benzo(g,h,i)perylene	110	J
207-08-9	Benzo(k)fluoranthene	170	J
218-01-9	Chrysene	230	
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	550	
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	120	J
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	400	
129-00-0	Pyrene	500	

NW
8/17/10

(1) Cannot be separated from Diphenylamine

SW8270C

3

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
1A-25

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: 82148 Mod. Ref No.: _____ SDG No.: 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-003

Sample wt/vol: 30.09 (g/mL): g Lab File ID: 10050418.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/04/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	68	
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	180	J
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	120	J
129-00-0	Pyrene	160	J

MW
8/17/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
1A-28

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: 82148 Mod. Ref No : _____ SDG No : 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-004

Sample wt/vol: 30.13 (g/mL): g Lab File ID: 10050419.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/04/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	180	U
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	180	U
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	180	U
129-00-0	Pyrene	180	U

NW
8/17/10

(1) Cannot be separated from Diphenylamine

SW8270C

5

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-29

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: 82148 Mod Ref No : _____ SDG No.: 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-005

Sample wt/vol: 30.17 (g/mL): g Lab File ID: 10050422.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/04/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	130	J
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	270	
56-55-3	Benzo(a)anthracene	810	
50-32-8	Benzo(a)pyrene	780	
205-99-2	Benzo(b)fluoranthene	640	
191-24-2	Benzo(g,h,i)perylene	390	
207-08-9	Benzo(k)fluoranthene	550	
218-01-9	Chrysene	850	
53-70-3	Dibenz(a,h)Anthracene	81	
206-44-0	Fluoranthene	1,300	
86-73-7	Fluorene	110	J
193-39-5	Indeno(1,2,3-c,d)Pyrene	390	
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	1,200	
129-00-0	Pyrene	2,000	

NW
8/17/10

SW8270C

6

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-30

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No : 82149 Mod. Ref No.: _____ SDG No : 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-006

Sample wt/vol: 30.18 (g/mL): g Lab File ID: 10050406.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/03/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/04/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	120	J
56-55-3	Benzo(a)anthracene	320	
50-32-8	Benzo(a)pyrene	260	
205-99-2	Benzo(b)fluoranthene	250	
191-24-2	Benzo(g,h,i)perylene	150	J
207-08-9	Benzo(k)fluoranthene	250	
218-01-9	Chrysene	340	
53-70-3	Dibenz(a,h)Anthracene	44	
206-44-0	Fluoranthene	680	
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	130	J
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	530	
129-00-0	Pyrene	670	

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8/17/10

(1) Cannot be separated from Diphenylamine

SW8270C

7

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
1A-36

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: 82156 Mod. Ref No : _____ SDG No.: 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-008

Sample wt/vol: 30.03 (g/mL): g Lab File ID: 10050507.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/05/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	200	U	
208-96-8	Acenaphthylene	200	U	
120-12-7	Anthracene	200	U	
56-55-3	Benzo(a)anthracene	200	~~U~~	UJ
50-32-8	Benzo(a)pyrene	55		J
205-99-2	Benzo(b)fluoranthene	200	~~U~~	R
191-24-2	Benzo(g,h,i)perylene	200	~~U~~	R
207-08-9	Benzo(k)fluoranthene	200	~~U~~	R
218-01-9	Chrysene	200	~~U~~	UJ
53-70-3	Dibenz(a,h)Anthracene	27	~~U~~	R
206-44-0	Fluoranthene	200	U	
86-73-7	Fluorene	200	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	~~U~~	R
91-57-6	2-Methylnaphthalene	200	U	
91-20-3	Naphthalene	200	U	
85-01-8	Phenanthrene	200	U	
129-00-0	Pyrene	140	~~J~~	J

MJ
8/17/10

SW8270C

8

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-37 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No : 82148 Mod Ref No.: _____ SDG No : 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-009

Sample wt/vol: 30.12 (g/mL): g Lab File ID: 10050424.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 05/03/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 05/04/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	1,700	U	
208-96-8	Acenaphthylene	1,700	U	
120-12-7	Anthracene	1,700	U	
56-55-3	Benzo(a)anthracene	1,500	~~U~~	J
50-32-8	Benzo(a)pyrene	1,400		
205-99-2	Benzo(b)fluoranthene	1,500	~~U~~	↓
191-24-2	Benzo(g,h,i)perylene	1,700	U	
207-08-9	Benzo(k)fluoranthene	1,200	~~U~~	J
218-01-9	Chrysene	1,500	~~U~~	↓
53-70-3	Dibenz(a,h)Anthracene	240	U	
206-44-0	Fluoranthene	2,600		J
86-73-7	Fluorene	1,700	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	1,700	U	
91-57-6	2-Methylnaphthalene	1,700	U	
91-20-3	Naphthalene	1,700	U	
85-01-8	Phenanthrene	1,600	~~U~~	J
129-00-0	Pyrene	3,500		J

NW
8/17/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-39

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: 82149 Mod. Ref No : _____ SDG No.: 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-010

Sample wt/vol: 30.13 (g/mL):g Lab File ID: 10050407.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 35 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/03/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/04/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	260	U
208-96-8	Acenaphthylene	260	U
120-12-7	Anthracene	260	U
56-55-3	Benzo(a)anthracene	160	J
50-32-8	Benzo(a)pyrene	150	
205-99-2	Benzo(b)fluoranthene	140	J
191-24-2	Benzo(g,h,i)perylene	260	U
207-08-9	Benzo(k)fluoranthene	140	J
218-01-9	Chrysene	160	J
53-70-3	Dibenz(a,h)Anthracene	36	U
206-44-0	Fluoranthene	350	
86-73-7	Fluorene	260	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	260	U
91-57-6	2-Methylnaphthalene	260	U
91-20-3	Naphthalene	260	U
85-01-8	Phenanthrene	260	U
129-00-0	Pyrene	320	

NW
8/17/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
1A-41

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: 82156 Mod. Ref No.: _____ SDG No.: 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-011

Sample wt/vol: 30.14 (g/mL): g Lab File ID: 10050505.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 1 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/05/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	1,400	J
208-96-8	Acenaphthylene	1,700	U
120-12-7	Anthracene	1,800	
56-55-3	Benzo(a)anthracene	3,300	
50-32-8	Benzo(a)pyrene	2,300	
205-99-2	Benzo(b)fluoranthene	1,600	J
191-24-2	Benzo(g,h,i)perylene	1,000	J
207-08-9	Benzo(k)fluoranthene	1,500	J
218-01-9	Chrysene	3,900	
53-70-3	Dibenz(a,h)Anthracene	250	
206-44-0	Fluoranthene	4,200	
86-73-7	Fluorene	1,600	J
193-39-5	Indeno(1,2,3-c,d)Pyrene	900	J
91-57-6	2-Methylnaphthalene	2,200	
91-20-3	Naphthalene	1,100	J
85-01-8	Phenanthrene	9,900	
129-00-0	Pyrene	8,800	

NW
8/17/10

(1) Cannot be separated from Diphenylamine

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
1A-42

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: 82156 Mod. Ref No.: _____ SDG No : 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-012

Sample wt/vol: 30.08 (g/mL):g Lab File ID: 10050506.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/04/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/05/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	200	U	
208-96-8	Acenaphthylene	200	U	
120-12-7	Anthracene	200	U	
56-55-3	Benzo(a)anthracene	190	~~J~~	J
50-32-8	Benzo(a)pyrene	180		
205-99-2	Benzo(b)fluoranthene	190	J	
191-24-2	Benzo(g,h,i)perylene	99	J	
207-08-9	Benzo(k)fluoranthene	150	J	
218-01-9	Chrysene	190	J	
53-70-3	Dibenz(a,h)Anthracene	27	~~U~~	UJ
206-44-0	Fluoranthene	330		
86-73-7	Fluorene	200	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	~~U~~	UJ
91-57-6	2-Methylnaphthalene	200	U	
91-20-3	Naphthalene	200	U	
85-01-8	Phenanthrene	250		
129-00-0	Pyrene	530		J

NW
8/17/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-43

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No : 82148 Mod. Ref No.: _____ SDG No.: 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-013

Sample wt/vol: 30.21 (g/mL): g Lab File ID: 10050423.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/04/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	120	J
50-32-8	Benzo(a)pyrene	120	
205-99-2	Benzo(b)fluoranthene	120	J
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	120	J
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	230	
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	110	J
129-00-0	Pyrene	220	

KW
8/17/10

(1) Cannot be separated from Diphenylamine

SW8270C

13

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-46

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No : 82149 Mod. Ref No.: _____ SDG No : 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-014

Sample wt/vol: 30.14 (g/mL):g Lab File ID: 10050408.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/03/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/04/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	160	J
50-32-8	Benzo(a)pyrene	150	
205-99-2	Benzo(b)fluoranthene	150	J
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	140	J
218-01-9	Chrysene	180	J
53-70-3	Dibenz(a,h)Anthracene	30	U
206-44-0	Fluoranthene	440	
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	270	
129-00-0	Pyrene	370	

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8/17/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-50

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No : 82148 Mod. Ref No : _____ SDG No.: 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-015

Sample wt/vol: 30.09 (g/mL):g Lab File ID: 10050427.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/04/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	U
208-96-8	Acenaphthylene	180	U
120-12-7	Anthracene	180	U
56-55-3	Benzo(a)anthracene	180	U
50-32-8	Benzo(a)pyrene	86	
205-99-2	Benzo(b)fluoranthene	94	J
191-24-2	Benzo(g,h,i)perylene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
218-01-9	Chrysene	93	J
53-70-3	Dibenz(a,h)Anthracene	25	U
206-44-0	Fluoranthene	190	
86-73-7	Fluorene	180	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U
91-57-6	2-Methylnaphthalene	180	U
91-20-3	Naphthalene	180	U
85-01-8	Phenanthrene	140	J
129-00-0	Pyrene	180	

LW
8/17/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-52

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No : 82148 Mod. Ref No.: _____ SDG No : 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-016

Sample wt/vol: 30.15 (g/mL):g Lab File ID: 10050428.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/04/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	240	
208-96-8	Acenaphthylene	220	U
120-12-7	Anthracene	340	
56-55-3	Benzo(a)anthracene	950	
50-32-8	Benzo(a)pyrene	840	
205-99-2	Benzo(b)fluoranthene	750	
191-24-2	Benzo(g,h,i)perylene	360	
207-08-9	Benzo(k)fluoranthene	660	
218-01-9	Chrysene	1,000	
53-70-3	Dibenz(a,h)Anthracene	93	
206-44-0	Fluoranthene	1,700	
86-73-7	Fluorene	230	
193-39-5	Indeno(1,2,3-c,d)Pyrene	400	
91-57-6	2-Methylnaphthalene	130	J
91-20-3	Naphthalene	110	J
85-01-8	Phenanthrene	1,800	
129-00-0	Pyrene	2,000	

KW
8/17/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-53

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No : 82148 Mod Ref No : _____ SDG No : 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-017

Sample wt/vol: 30.17 (g/mL):g Lab File ID: 10050429.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 29 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/05/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	J
208-96-8	Acenaphthylene	230	U
120-12-7	Anthracene	210	J
56-55-3	Benzo(a)anthracene	710	
50-32-8	Benzo(a)pyrene	710	
205-99-2	Benzo(b)fluoranthene	750	
191-24-2	Benzo(g,h,i)perylene	370	
207-08-9	Benzo(k)fluoranthene	620	
218-01-9	Chrysene	740	
53-70-3	Dibenz(a,h)Anthracene	83	
206-44-0	Fluoranthene	1,400	
86-73-7	Fluorene	230	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	420	
91-57-6	2-Methylnaphthalene	230	U
91-20-3	Naphthalene	230	U
85-01-8	Phenanthrene	970	
129-00-0	Pyrene	1,500	

NW
8/17/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
1A-54

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No : 82148 Mod. Ref No.: _____ SDG No.: 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-018

Sample wt/vol: 30.01 (g/mL):g Lab File ID: 10050431.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/05/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	J
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	300	
56-55-3	Benzo(a)anthracene	700	
50-32-8	Benzo(a)pyrene	540	
205-99-2	Benzo(b)fluoranthene	490	
191-24-2	Benzo(g,h,i)perylene	220	
207-08-9	Benzo(k)fluoranthene	410	
218-01-9	Chrysene	740	
53-70-3	Dibenz(a,h)Anthracene	55	
206-44-0	Fluoranthene	1,200	
86-73-7	Fluorene	270	
193-39-5	Indeno(1,2,3-c,d)Pyrene	240	
91-57-6	2-Methylnaphthalene	150	J
91-20-3	Naphthalene	130	J
85-01-8	Phenanthrene	1,700	
129-00-0	Pyrene	1,800	

MW
8/17/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-55

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: 82148 Mod. Ref No : _____ SDG No.: 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-019

Sample wt/vol: 30.06 (g/mL):g Lab File ID: 10050435.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/05/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	120	J
56-55-3	Benzo(a)anthracene	470	
50-32-8	Benzo(a)pyrene	450	
205-99-2	Benzo(b)fluoranthene	440	
191-24-2	Benzo(g,h,i)perylene	260	
207-08-9	Benzo(k)fluoranthene	360	
218-01-9	Chrysene	470	
53-70-3	Dibenz(a,h)Anthracene	62	
206-44-0	Fluoranthene	820	
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	270	
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	630	
129-00-0	Pyrene	1,200	

Rev 8/17/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-57

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: 82156 Mod. Ref No.: _____ SDG No : 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-020

Sample wt/vol: 30.09 (g/mL):g Lab File ID: 10050508.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 37 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/03/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/05/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	430		
208-96-8	Acenaphthylene	260	U	
120-12-7	Anthracene	500		
56-55-3	Benzo(a)anthracene	1,400		J
50-32-8	Benzo(a)pyrene	1,400		
205-99-2	Benzo(b)fluoranthene	1,600		
191-24-2	Benzo(g,h,i)perylene	570		
207-08-9	Benzo(k)fluoranthene	1,300		
218-01-9	Chrysene	1,400		
53-70-3	Dibenz(a,h)Anthracene	140		
206-44-0	Fluoranthene	2,200		
86-73-7	Fluorene	250	J	
193-39-5	Indeno(1,2,3-c,d)Pyrene	700		J
91-57-6	2-Methylnaphthalene	260	U	
91-20-3	Naphthalene	260	U	
85-01-8	Phenanthrene	1,900		
129-00-0	Pyrene	3,200		J

MW 8/17/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-58

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: 82149 Mod Ref No.: _____ SDG No.: 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-021

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10050409.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 27 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/03/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/04/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	230	U
208-96-8	Acenaphthylene	230	U
120-12-7	Anthracene	230	U
56-55-3	Benzo(a)anthracene	230	U
50-32-8	Benzo(a)pyrene	35	
205-99-2	Benzo(b)fluoranthene	230	U
191-24-2	Benzo(g,h,i)perylene	230	U
207-08-9	Benzo(k)fluoranthene	230	U
218-01-9	Chrysene	230	U
53-70-3	Dibenz(a,h)Anthracene	32	U
206-44-0	Fluoranthene	230	U
86-73-7	Fluorene	230	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	230	U
91-57-6	2-Methylnaphthalene	230	U
91-20-3	Naphthalene	230	U
85-01-8	Phenanthrene	230	U
129-00-0	Pyrene	230	U

MW
8/17/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-65

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: 82148 Mod. Ref No.: _____ SDG No.: 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-025

Sample wt/vol: 30.19 (g/mL):g Lab File ID: 10050430.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/05/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

VW
8/17/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-71

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: 82148 Mod. Ref No.: _____ SDG No.: 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-027

Sample wt/vol: 30.06 (g/mL):g Lab File ID: 10050432.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 05/03/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 05/05/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	110	J
56-55-3	Benzo(a)anthracene	290	
50-32-8	Benzo(a)pyrene	270	
205-99-2	Benzo(b)fluoranthene	300	
191-24-2	Benzo(g,h,i)perylene	140	J
207-08-9	Benzo(k)fluoranthene	230	
218-01-9	Chrysene	290	
53-70-3	Dibenz(a,h)Anthracene	33	
206-44-0	Fluoranthene	630	
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	160	J
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	470	
129-00-0	Pyrene	700	

QW
8/17/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-72

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: 82149 Mod. Ref No.: _____ SDG No : 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-028

Sample wt/vol: 30.05 (g/mL):g Lab File ID: 10050410.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 27 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/03/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/04/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	230	U
208-96-8	Acenaphthylene	230	U
120-12-7	Anthracene	230	U
56-55-3	Benzo(a)anthracene	340	
50-32-8	Benzo(a)pyrene	370	
205-99-2	Benzo(b)fluoranthene	330	
191-24-2	Benzo(g,h,i)perylene	190	J
207-08-9	Benzo(k)fluoranthene	300	
218-01-9	Chrysene	370	
53-70-3	Dibenz(a,h)Anthracene	36	
206-44-0	Fluoranthene	580	
86-73-7	Fluorene	230	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	J
91-57-6	2-Methylnaphthalene	230	U
91-20-3	Naphthalene	230	U
85-01-8	Phenanthrene	280	
129-00-0	Pyrene	670	

NW
8/17/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-27

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: 82148 Mod. Ref No.: _____ SDG No.: 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-036

Sample wt/vol: 30.17 (g/mL): g Lab File ID: 10050433.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/05/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	1,900	U
208-96-8	Acenaphthylene	1,900	U
120-12-7	Anthracene	1,900	U
56-55-3	Benzo(a)anthracene	2,300	
50-32-8	Benzo(a)pyrene	2,100	
205-99-2	Benzo(b)fluoranthene	2,100	
191-24-2	Benzo(g,h,i)perylene	1,200	J
207-08-9	Benzo(k)fluoranthene	1,700	J
218-01-9	Chrysene	2,400	
53-70-3	Dibenz(a,h)Anthracene	290	
206-44-0	Fluoranthene	4,500	
86-73-7	Fluorene	1,900	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	1,200	J
91-57-6	2-Methylnaphthalene	1,900	U
91-20-3	Naphthalene	1,900	U
85-01-8	Phenanthrene	3,500	
129-00-0	Pyrene	5,500	

MW
8/17/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-28

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: 82148 Mod. Ref No.: _____ SDG No.: 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-037

Sample wt/vol: 30.05 (g/mL):g Lab File ID: 10050434.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/05/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	350		J
208-96-8	Acenaphthylene	200	U	
120-12-7	Anthracene	660		J
56-55-3	Benzo(a)anthracene	1,300		
50-32-8	Benzo(a)pyrene	980		
205-99-2	Benzo(b)fluoranthene	820		
191-24-2	Benzo(g,h,i)perylene	430		
207-08-9	Benzo(k)fluoranthene	760		
218-01-9	Chrysene	1,300		
53-70-3	Dibenz(a,h)Anthracene	110		
206-44-0	Fluoranthene	1,900		
86-73-7	Fluorene	590		
193-39-5	Indeno(1,2,3-c,d)Pyrene	460		
91-57-6	2-Methylnaphthalene	360		
91-20-3	Naphthalene	420		
85-01-8	Phenanthrene	3,100		

NW
8/17/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-28

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No : 82148 Mod. Ref No.: _____ SDG No.: 10050309

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10050309-037

Sample wt/vol: 30.05 (g/mL):g Lab File ID: 10050434.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/03/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 05/04/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 05/05/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
129-00-0	Pyrene	3,300	J

Lew 8/17/10

(1) Cannot be separated from Diphenylamine

SW8270C

ENVIRONMENTAL
Data Services, Inc.

TAL METALS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10050309

Client: ARGO Systems, Glen Burnie, MD Date: August 17, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1*	1A-25	10050309-003	Soil
2	1A-33	10050309-007	Soil
3*	1A-36	10050309-008	Soil
4	1A-39	10050309-010	Soil
5*	1A-42	10050309-012	Soil
6*	1A-53	10050309-017	Soil
7	1A-55	10050309-019	Soil
8	1A-57	10050309-020	Soil
9*	1A-62	10050309-022	Soil
10*	1A-63	10050309-023	Soil
11	1A-64	10050309-024	Soil
11MS	1A-64MS	10050309-024MS	Soil
11MSD	1A-64MSD	10050309-024MSD	Soil
12	1A-67	10050309-026	Soil
13*	1A-72	10050309-028	Soil
14*	4A-120-2-SE-80	10050309-029	Soil
15*	4A-NW-40	10050309-030	Soil
16*	4A-NW-120	10050309-031	Soil
17*	4A-60-2-NE-60	10050309-032	Soil
18*	4A-60-2-NE-100	10050309-033	Soil
19**	J629A	10050309-034	Soil
20	DUP-26	10050309-035	Soil
21	DUP-29	10050309-038	Soil

* - *Arsenic only*
** - *Chromium only*

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks exhibited the following contamination.

Compound	Conc. mg/kg	Action Level mg/kg	Qualifier	Affected Samples
Zinc (PB 82154)	11.39	56.95	U	11, 12, 20

Field and Equipment Blank - Field QC samples were not included in this data package.

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier	Affected Samples
11	Chromium	151%/OK/OK	K	2, 4, 7, 8, 12, 19, 20
	Zinc	OK/56%/OK	L/UL	2, 4, 7, 8
Reference (82150)	Chromium	33%/161%/132	K/UL	21
	Nickel	11%/OK/162	L/UL	21
	Zinc	55%/OK/32	L/UL	21

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate results are summarized below.

Compound	1A-64 mg/kg	DUP-29 mg/kg	RPD	Qualifier
Arsenic	1.4	1.5	7%	None
Chromium	9.7	4.2	79%	None
Copper	10	4.1	84%	None
Lead	3.1	1.8	53%	None
Nickel	4.3	2.4	57%	None
Zinc	17.28B	9.3	NC	None

Compound Quantitation - All criteria were met.

Compound Quantitation - All criteria were met.

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A-25

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10050309

Matrix (soil/water): SOIL Lab Sample ID: 10050309-003

Level (low/med): LOW Date Received: 05/03/2010

% Solids: 83 Batch #: 82154

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.7			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
8/17/10

FORM IA - IN SW6020

2

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A-33

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10050309

Matrix (soil/water): SOIL Lab Sample ID: 10050309-007

Level (low/med): LOW Date Received: 05/03/2010

% Solids: 87 Batch #: 82154

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.3	U		MS	
7440-38-2	Arsenic	5.7			MS	
7440-41-7	Beryllium	2.3	U		MS	
7440-43-9	Cadmium	2.3	U		MS	
7440-47-3	Chromium	23		N ✓	MS	K
7440-50-8	Copper	23			MS	
7439-92-1	Lead	52			MS	
7439-97-6	Mercury	0.08	J		MS	
7440-02-0	Nickel	38			MS	
7782-49-2	Selenium	2.3	U		MS	
7440-22-4	Silver	2.3	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	85.16			MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

WW
8/17/10

FORM IA - IN SW6020

3

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A-36

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No : 10050309

Matrix (soil/water): SOIL Lab Sample ID: 10050309-008

Level (low/med): LOW Date Received: 05/03/2010

% Solids: 85 Batch #: 82154

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.5			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

LW
8/17/10

FORM IA - IN SW6020

4

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A-39

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10050309

Matrix (soil/water): SOIL Lab Sample ID: 10050309-010

Level (low/med): LOW Date Received: 05/03/2010

% Solids: 65 Batch #: 82154

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.3	U		MS	
7440-38-2	Arsenic	8.6			MS	
7440-41-7	Beryllium	3.3	U		MS	
7440-43-9	Cadmium	3.3	U		MS	
7440-47-3	Chromium	42		~~N~~	MS	K
7440-50-8	Copper	34			MS	
7439-92-1	Lead	76			MS	
7439-97-6	Mercury	0.15			MS	
7440-02-0	Nickel	39			MS	
7782-49-2	Selenium	3.3	U		MS	
7440-22-4	Silver	3.3	U		MS	
7440-28-0	Thallium	0.7	U		MS	
7440-66-6	Zinc	123.4			MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

mw
8/17/10

FORM IA - IN SW6020

5

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A-42

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10050309

Matrix (soil/water): SOIL Lab Sample ID: 10050309-012

Level (low/med): LOW Date Received: 05/03/2010

% Solids: 85 Batch #: 82154

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.1			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/17/10

FORM IA - IN SW6020

6

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A-53

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10050309

Matrix (soil/water): SOIL Lab Sample ID: 10050309-017

Level (low/med): LOW Date Received: 05/03/2010

% Solids: 71 Batch #: 82154

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.0			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
8/17/10

FORM IA - IN SW6020

7

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A-55

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10050309

Matrix (soil/water): SOIL Lab Sample ID: 10050309-019

Level (low/med): LOW Date Received: 05/03/2010

% Solids: 88 Batch #: 82154

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.6	U		MS	
7440-38-2	Arsenic	4.3			MS	
7440-41-7	Beryllium	2.6	U		MS	
7440-43-9	Cadmium	2.6	U		MS	
7440-47-3	Chromium	36		~~N~~	MS	K
7440-50-8	Copper	17			MS	
7439-92-1	Lead	200			MS	
7439-97-6	Mercury	2.507			MS	
7440-02-0	Nickel	130			MS	
7782-49-2	Selenium	2.6	U		MS	
7440-22-4	Silver	1.9	J		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	77.98			MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
8/17/10

FORM IA - IN SW6020

8

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A-57

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10050309

Matrix (soil/water): SOIL Lab Sample ID: 10050309-020

Level (low/med): LOW Date Received: 05/03/2010

% Solids: 63 Batch #: 82154

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.2	U		MS	
7440-38-2	Arsenic	5.3			MS	
7440-41-7	Beryllium	3.2	U		MS	
7440-43-9	Cadmium	3.2	U		MS	
7440-47-3	Chromium	21		X	MS	K
7440-50-8	Copper	25			MS	
7439-92-1	Lead	110			MS	
7439-97-6	Mercury	0.12	J		MS	
7440-02-0	Nickel	39			MS	
7782-49-2	Selenium	3.2	U		MS	
7440-22-4	Silver	3.2	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	170			MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 8/17/10

FORM IA - IN SW6020

9

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A-62

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10050309

Matrix (soil/water): SOIL Lab Sample ID: 10050309-022

Level (low/med): LOW Date Received: 05/03/2010

% Solids: 95 Batch #: 82154

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.92			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/17/10

FORM IA - IN SW6020

10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A-63

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10050309

Matrix (soil/water): SOIL Lab Sample ID: 10050309-023

Level (low/med): LOW Date Received: 05/03/2010

% Solids: 85 Batch #: 82154

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.1			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/17/10

FORM IA - IN SW6020

11

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A-64 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10050309

Matrix (soil/water): SOIL Lab Sample ID: 10050309-024

Level (low/med): LOW Date Received: 05/03/2010

% Solids: 85 Batch #: 82154

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.4	U		MS	
7440-38-2	Arsenic	1.4			MS	
7440-41-7	Beryllium	2.4	U		MS	
7440-43-9	Cadmium	2.4	U		MS	
7440-47-3	Chromium	9.7		N	MS	K
7440-50-8	Copper	10			MS	
7439-92-1	Lead	3.1			MS	
7439-97-6	Mercury	0.09	U		MS	
7440-02-0	Nickel	4.3			MS	
7782-49-2	Selenium	2.4	U		MS	
7440-22-4	Silver	2.4	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	17.28			MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/17/10

FORM IA - IN SW6020

12

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A-67

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10050309

Matrix (soil/water): SOIL Lab Sample ID: 10050309-026

Level (low/med): LOW Date Received: 05/03/2010

% Solids: 73 Batch #: 82154

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.8	U		MS	
7440-38-2	Arsenic	5.2			MS	
7440-41-7	Beryllium	2.8	U		MS	
7440-43-9	Cadmium	2.8	U		MS	
7440-47-3	Chromium	15		~~N~~	MS	K
7440-50-8	Copper	22			MS	
7439-92-1	Lead	63			MS	
7439-97-6	Mercury	0.10	J		MS	
7440-02-0	Nickel	7.5			MS	
7782-49-2	Selenium	2.8	U		MS	
7440-22-4	Silver	2.8	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	54.06			MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/17/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A-72

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No.: 10050309

Matrix (soil/water): SOIL Lab Sample ID: 10050309-028

Level (low/med): LOW Date Received: 05/03/2010

% Solids: 73 Batch #: 82154

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.2			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/17/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

4A-120-2-SE-80

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10050309

Matrix (soil/water): SOIL Lab Sample ID: 10050309-029

Level (low/med): LOW Date Received: 05/03/2010

% Solids: 88 Batch #: 82154

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

LW
8/19/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

4A-NW-40

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10050309

Matrix (soil/water): SOIL Lab Sample ID: 10050309-030

Level (low/med): LOW Date Received: 05/03/2010

% Solids: 77 Batch #: 82154

Concentration Units (ug/L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.8			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/17/10

FORM IA - IN SW6020

16

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

4A-NW-120

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10050309

Matrix (soil/water): SOIL Lab Sample ID: 10050309-031

Level (low/med): LOW Date Received: 05/03/2010

% Solids: 96 Batch #: 82154

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.2			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MY 8/17/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

4A-60-2-NE-60

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No : 10050309

Matrix (soil/water): SOIL Lab Sample ID: 10050309-032

Level (low/med): LOW Date Received: 05/03/2010

% Solids: 88 Batch #: 82154

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	6.1			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

8/17/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
4A-60-2-NE-100

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10050309
Matrix (soil/water): SOIL Lab Sample ID: 10050309-033
Level (low/med): LOW Date Received: 05/03/2010
% Solids: 82 Batch #: 82154

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.2			MS

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

NW
8/17/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
J629A

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS _____ SDG 10050309

Matrix (soil/water): SOIL Lab Sample ID: 10050309-034

Level (low/med): LOW Date Received: 05/03/2010

% Solids: 83 Batch #: 82154

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
					MS
7440-47-3	Chromium	4.0		~~N~~	MS K

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 8/17/10

FORM IA - IN SW6020

20

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-26

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS _____ SDG 10050309

Matrix (soil/water): SOIL Lab Sample ID: 10050309-035

Level (low/med): LOW Date Received: 05/03/2010

% Solids: 85 Batch #: 82154

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.1	U		MS	
7440-38-2	Arsenic	3.0			MS	
7440-41-7	Beryllium	1.1	J		MS	
7440-43-9	Cadmium	2.1	U		MS	
7440-47-3	Chromium	14		~~N~~	MS	K
7440-50-8	Copper	9.2			MS	
7439-92-1	Lead	14			MS	
7439-97-6	Mercury	0.09	U		MS	
7440-02-0	Nickel	7.3			MS	
7782-49-2	Selenium	2.1	U		MS	
7440-22-4	Silver	2.1	U		MS	
7440-28-0	Thallium	0.4	U		MS	
7440-66-6	Zinc	25.47			MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

RW
8/17/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-29

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS _____ SDG 10050309

Matrix (soil/water): SOIL Lab Sample ID: 10050309-038

Level (low/med): LOW Date Received: 05/03/2010

% Solids: 90 Batch #: 82150

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.6	U		MS	
7440-38-2	Arsenic	1.5			MS	
7440-41-7	Beryllium	2.6	U		MS	
7440-43-9	Cadmium	2.6	U		MS	
7440-47-3	Chromium	4.2			MS	K
7440-50-8	Copper	4.1			MS	
7439-92-1	Lead	1.8	J		MS	
7439-97-6	Mercury	0.10	U		MS	
7440-02-0	Nickel	2.4	J		MS	L
7782-49-2	Selenium	2.6	U		MS	
7440-22-4	Silver	2.6	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	9.3	J		MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

ew
8/17/10

FORM IA - IN SW6020

ENVIRONMENTAL
Data Services, Inc.

HEXAVALENT CHROMIUM

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 100- 50305, 50306, 50307, 50308

Client: ARGO Systems, Glen Burnie, MD Date: August 19, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	NR-5	10050305-001	Soil
1MS	NR-5MS	10050305-001MS	Soil
1MSD	NR-5MSD	10050305-001MSD	Soil
2	R-80	10050306-001	Soil
3	DUP-23	10050307-001	Soil
4	DUP-24	10050308-001	Soil

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 30 days for hexavalent chromium.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Matrix Spike/Duplicate - The matrix spike/duplicate sample exhibited acceptable %R and RPD values.

LCS - The LCS samples exhibited acceptable %R values.

Field Duplicates - Field duplicate samples were not analyzed.

Compound Quantitation - No discrepancies were identified.

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ROUTE 40 WEST
BALTIMORE, MD 21228
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800-932-9047
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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 10050305
ARGO Systems, Glen Burnie, MD
May 10, 2010

Project Name: NTCB
Project Location: Port Deposit
Project ID: 1462309

Sample ID: NR-5 **Date/Time Sampled: 04/07/2010 13:15** **PSS Sample ID: 10050305-001**
Matrix: SOIL **Date/Time Received: 04/14/2010 13:00** **% Solids: 87**

VCP Metals — Analytical Method: SW846 6020A — Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Manganese	**87**	mg/kg	2 2		1	1 1	05/04/10	05/05/10 19:39	1033
Vanadium	**21**	mg/kg	2 2		1	1 1	05/04/10	05/05/10 19:39	1033

Chromium, Hexavalent — Analytical Method: SW846 7196A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chromium, Hexavalent	ND	mg/kg	11		5	11	05/07/10	05/07/10 17:10	1022

LW 8/17/10

2

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 10050306
ARGO Systems, Glen Burnie, MD
May 10, 2010

Project Name: NTCB
Project Location: Port Deposit
Project ID: 1462309

Sample ID: R-80 **Date/Time Sampled: 04/14/2010 10:35** **PSS Sample ID: 10050306-001**
Matrix: SOIL **Date/Time Received: 04/19/2010 12:10** **% Solids: 82**

VCP Metals — Analytical Method: SW846 6020A — Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Manganese	**2,500**	mg/kg	55		20	27	05/04/10	05/06/10 17:09	1033
Vanadium	**25**	mg/kg	2 7		1	1 4	05/04/10	05/05/10 19:45	1033

Chromium, Hexavalent — Analytical Method: SW846 7196A

2

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chromium, Hexavalent	ND	mg/kg	12		5	12	05/07/10	05/07/10 17:10	1022

lw 8/17/10

3

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 10050307

ARGO Systems, Glen Burnie, MD

May 10, 2010

Project Name: NTCB
Project Location: Port Deposit
Project ID: 1462309

Sample ID: Dup-23 **Date/Time Sampled: 04/14/2010 00:00** **PSS Sample ID: 10050307-001**
Matrix: SOIL **Date/Time Received: 04/21/2010 11:30** **% Solids: 80**

VCP Metals — Analytical Method: SW846 6020A — Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Manganese	**610**	mg/kg	28		10	14	05/04/10	05/06/10 17:15	1033
Vanadium	**56**	mg/kg	2 8		1	1.4	05/04/10	05/05/10 19:50	1033

3

Chromium, Hexavalent — Analytical Method: SW846 7196A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chromium, Hexavalent	ND	mg/kg	12		5	12	05/07/10	05/07/10 17:10	1022

lw 8/17/10

4

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PHASE SEPARATION SCIENCE, INC.

1989 - 20 YEARS - 2009 ANALYTICAL CHEMISTRY ENVIRONMENTAL SCIENCE EXCEEDING THE STANDARD

CERTIFICATE OF ANALYSIS

No: 10050308
ARGO Systems, Glen Burnie, MD
May 10, 2010

Project Name: NTCB
Project Location: Port Deposit
Project ID: 1462309

Sample ID: Dup-24 **Date/Time Sampled: 04/16/2010 00:00** **PSS Sample ID: 10050308-001**
Matrix: SOIL **Date/Time Received: 04/22/2010 13:30** **% Solids: 80**

VCP Metals — Analytical Method: SW846 6020A — Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Manganese	**210**	mg/kg	2.5		1	1 3	05/04/10	05/05/10 20:13	1033
Vanadium	**51**	mg/kg	2.5		1	1 3	05/04/10	05/05/10 20:13	1033

Chromium Hexavalent — Analytical Method: SW846 7196A

4

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chromium, Hexavalent	ND	mg/kg	12		5	12	05/07/10	05/07/10 17:10	1022

MW 8/17/10

ENVIRONMENTAL
Data Services, Inc.

TAL METALS (MANGANESE, VANADIUM, ARSENIC ONLY)

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 100- 42301, 50305, 50306, 50307, 50308

Client: ARGO Systems, Glen Burnie, MD Date: August 17, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	DUP-18	10042301-001	Soil
2	NR-5	10050305-001	Soil
3	R-80	10050306-001	Soil
4	DUP-23	10050307-001	Soil
5	DUP-24	10050308-001	Soil

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 180 days for all metals.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level mg/kg	Qualifier	Affected Samples
EB-3	Arsenic	0.5	1.25	None	All > 5X
EB-4	Arsenic	0.5	1.25	None	All > 5X

ICP Interference Check Sample - All %R values were acceptable.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier	Affected Samples
Reference	Vanadium	184%/149%/OK	K	2-5

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate results are summarized below.

Compound	R-63 mg/kg	DUP-18 mg/kg	RPD	Qualifier
Arsenic	8.4	4.0	71%	None

Compound Quantitation - All criteria were met.

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-18

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10042301

Matrix (soil/water): SOIL Lab Sample ID: 10042301-001

Level (low/med): LOW Date Received: 04/20/2010

% Solids: 83 Batch #: 81956

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.0			MS

Color Before BLACK Clarity Before _____ Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments: _____

MW 8/17/10

FORM IA - IN SW6020

2

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-5

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10050305

Matrix (soil/water): SOIL Lab Sample ID: 10050305-001

Level (low/med): LOW Date Received: 04/14/2010

% Solids: 87 Batch #: 82179

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-96-5	Manganese	87			MS
7440-62-2	Vanadium	21	K		MS

Color Before BLACK Clarity Before _____ Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments: _____

MW 8/17/10

FORM IA - IN SW6020

3

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-80

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS _____ SDG 10050306

Matrix (soil/water): SOIL Lab Sample ID: 10050306-001

Level (low/med): LOW Date Received: 04/19/2010

% Solids: 82 Batch #: 82179

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7439-96-5	Manganese	2500			MS
7440-62-2	Vanadium	25	K		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 8/17/10

FORM IA - IN SW6020

4

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-23

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS _____ SDG 10050307

Matrix (soil/water): SOIL Lab Sample ID: 10050307-001

Level (low/med): LOW Date Received: 04/21/2010

% Solids: 80 Batch #: 82179

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7439-96-5	Manganese	610			MS
7440-62-2	Vanadium	56	K		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/17/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

5

EPA SAMPLE NO.

DUP-24

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS _____ SDG 10050308

Matrix (soil/water): SOIL Lab Sample ID: 10050308-001

Level (low/med): LOW Date Received: 04/22/2010

% Solids: 80 Batch #: 82179

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-96-5	Manganese	210			MS
7440-62-2	Vanadium	51	K		MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 8/17/10

FORM IA - IN SW6020

ENVIRONMENTAL
Data Services, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10042219

Client: ARGO Systems, Glen Burnie, MD Date: August 15, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	R-48	10042219-001	Soil
2	R-61	10042219-002	Soil
3	R-65	10042219-003	Soil
4	NR-31	10042219-004	Soil
4MS	NR-31MS	10042219-004MS	Soil
4MSD	NR-31MSD	10042219-004MSD	Soil
5	1A-17	10042219-007	Soil
6	1A-18	10042219-008	Soil
7	1A-31	10042219-009	Soil
8	1A-32	10042219-010	Soil
9	1A-34	10042219-011	Soil
10	1A-44	10042219-012	Soil
11	1A-47	10042219-013	Soil
12	1A-48	10042219-014	Soil
13	1A-49	10042219-015	Soil
14	DUP-24	10042219-019	Soil
15	DUP-25	10042219-020	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level mg/kg	Qualifier	Affected Samples
EB-5	None-ND	-	-	-	-
EB-6	None-ND	-	-	-	-

Field Duplicates - Field duplicate results are summarized below.

Compound	NR-31 ug/kg	DUP-24 ug/kg	RPD	Qualifier
Benzo(a)anthracene	150	2100 U	NC	None
Benzo(a)pyrene	130	460	112%	J
Benzo(b)fluoranthene	140	2100 U	NC	None
Benzo(g,h,i)perylene	130	2100 U	NC	None
Benzo(k)fluoranthene	100	2100 U	NC	None
Chrysene	160	2100 U	NC	None
Dibenz(a,h)Anthracene	82	290 U	NC	None
Fluoranthene	320	1200	116%	J
Indeno(1,2,3-cd)Pyrene	130	2100 U	NC	None
Phenanthrene	280	2100 U	NC	None
Pyrene	350	1100	103%	J

Compound	1A-49 ug/kg	DUP-25 ug/kg	RPD	Qualifier
Acenaphthene	600	380	45%	None
Anthracene	830	630	27%	None
Benzo(a)anthracene	1800	1800	0%	None

Compound	1A-49 ug/kg	DUP-25 ug/kg	RPD	Qualifier
Benzo(a)pyrene	1500	1600	6%	None
Benzo(b)fluoranthene	1500	1900	24%	None
Benzo(g,h,i)perylene	790	680	15%	None
Benzo(k)fluoranthene	1200	1300	8%	None
Chrysene	1800	1900	5%	None
Fluoranthene	3800	4400	15%	None
Fluorene	510	390	27%	None
Indeno(1,2,3-cd)Pyrene	810	800	1%	None
2-Methylnaphthalene	230	230 U	NC	None
Napthalene	210	120	55%	None
Phenanthrene	4500	2700	50%	None
Pyrene	5700	3300	53%	None

Compound Quantitation - Several samples were analyzed at 10X and 20X dilutions due to high concentrations of target compounds.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

R-48

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81957 Mod. Ref No : _____ SDG No.: 10042219

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042219-001

Sample wt/vol: 30 (g/mL): g Lab File ID: 10042329.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 28 Decanted: (Y/N) N Date Received: 04/22/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/23/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	400	
208-96-8	Acenaphthylene	230	U
120-12-7	Anthracene	600	
56-55-3	Benzo(a)anthracene	1,500	
50-32-8	Benzo(a)pyrene	1,600	
205-99-2	Benzo(b)fluoranthene	1,700	
191-24-2	Benzo(g,h,i)perylene	770	
207-08-9	Benzo(k)fluoranthene	1,200	
218-01-9	Chrysene	1,600	
53-70-3	Dibenz(a,h)Anthracene	240	
206-44-0	Fluoranthene	3,100	
86-73-7	Fluorene	390	
193-39-5	Indeno(1,2,3-c,d)Pyrene	910	
91-57-6	2-Methylnaphthalene	230	U
91-20-3	Naphthalene	230	U
85-01-8	Phenanthrene	2,700	
129-00-0	Pyrene	3,400	

NW
8/15/10

SW8270C

2

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-61

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81979 Mod. Ref No.: _____ SDG No : 10042219

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042219-002

Sample wt/vol: 30.01 (g/mL): g Lab File ID: 10042530.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 04/22/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/23/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/26/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	2,000	J
208-96-8	Acenaphthylene	2,100	U
120-12-7	Anthracene	2,700	
56-55-3	Benzo(a)anthracene	6,300	
50-32-8	Benzo(a)pyrene	5,000	
205-99-2	Benzo(b)fluoranthene	4,400	
191-24-2	Benzo(g,h,i)perylene	2,300	
207-08-9	Benzo(k)fluoranthene	4,700	
218-01-9	Chrysene	7,100	
53-70-3	Dibenz(a,h)Anthracene	530	
206-44-0	Fluoranthene	15,000	
86-73-7	Fluorene	2,200	
193-39-5	Indeno(1,2,3-c,d)Pyrene	2,400	
91-57-6	2-Methylnaphthalene	2,100	U
91-20-3	Naphthalene	1,400	J
85-01-8	Phenanthrene	19,000	
129-00-0	Pyrene	19,000	

NW
8/15/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-65

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81957 Mod. Ref No.: _____ SDG No.: 10042219

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042219-003

Sample wt/vol: 30 (g/mL):g Lab File ID: 10042320.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 04/22/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/23/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/23/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	69	
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	160	J
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	130	J

NW
8/15/10

4

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-31 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81957 Mod. Ref No : _____ SDG No : 10042219

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042219-004

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10042326.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 04/22/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/23/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/23/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	150	J
50-32-8	Benzo(a)pyrene	130	J
205-99-2	Benzo(b)fluoranthene	140	J
191-24-2	Benzo(g,h,i)perylene	130	J
207-08-9	Benzo(k)fluoranthene	100	J
218-01-9	Chrysene	160	J
53-70-3	Dibenz(a,h)Anthracene	82	
206-44-0	Fluoranthene	320	J
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	130	J
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	280	
129-00-0	Pyrene	350	J

NLS
8/15/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-17

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81957 Mod. Ref No.: _____ SDG No.: 10042219

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042219-007

Sample wt/vol: 30.12 (g/mL):g Lab File ID: 10042316.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 04/22/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/23/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/23/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

NW
8/15/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-18

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81957 Mod. Ref No.: _____ SDG No.: 10042219

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042219-008

Sample wt/vol: 30.06 (g/mL):g Lab File ID: 10042317.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 04/22/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/23/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/23/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	240	
50-32-8	Benzo(a)pyrene	210	
205-99-2	Benzo(b)fluoranthene	220	
191-24-2	Benzo(g,h,i)perylene	110	J
207-08-9	Benzo(k)fluoranthene	210	J
218-01-9	Chrysene	270	
53-70-3	Dibenz(a,h)Anthracene	33	
206-44-0	Fluoranthene	660	
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	130	J
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	420	
129-00-0	Pyrene	430	

NW 8/15/10

(1) Cannot be separated from Diphenylamine

SW8270C

7

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-31

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81957 Mod Ref No.: _____ SDG No.: 10042219

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042219-009

Sample wt/vol: 30.12 (g/mL):g Lab File ID: 10042322.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 04/22/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/23/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/23/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	8,300	
208-96-8	Acenaphthylene	2,000	U
120-12-7	Anthracene	9,700	
56-55-3	Benzo(a)anthracene	26,000	
50-32-8	Benzo(a)pyrene	24,000	
205-99-2	Benzo(b)fluoranthene	30,000	
191-24-2	Benzo(g,h,i)perylene	10,000	
207-08-9	Benzo(k)fluoranthene	18,000	
218-01-9	Chrysene	27,000	
53-70-3	Dibenz(a,h)Anthracene	3,100	
86-73-7	Fluorene	4,900	
193-39-5	Indeno(1,2,3-c,d)Pyrene	13,000	
91-57-6	2-Methylnaphthalene	2,000	U
91-20-3	Naphthalene	2,100	

MW
8/15/10

SW8270C

7

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-31

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81957 Mod. Ref No.: _____ SDG No.: 10042219

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042219-009

Sample wt/vol: 30.12 (g/mL): g Lab File ID: 10042322.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 04/22/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/23/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/23/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
206-44-0	Fluoranthene	59,000	
85-01-8	Phenanthrene	46,000	
129-00-0	Pyrene	61,000	

KW
8/15/10

(1) Cannot be separated from Diphenylamine

SW8270C

8

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-32

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81957 Mod. Ref No : _____ SDG No.: 10042219

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042219-010

Sample wt/vol: 30.04 (g/mL): g Lab File ID: 10042327.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 32 Decanted: (Y/N) N Date Received: 04/22/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/23/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/23/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	830	
208-96-8	Acenaphthylene	240	U
120-12-7	Anthracene	960	
56-55-3	Benzo(a)anthracene	2,100	
50-32-8	Benzo(a)pyrene	1,700	
205-99-2	Benzo(b)fluoranthene	1,900	
191-24-2	Benzo(g,h,i)perylene	640	
207-08-9	Benzo(k)fluoranthene	1,600	
218-01-9	Chrysene	2,100	
53-70-3	Dibenz(a,h)Anthracene	220	
86-73-7	Fluorene	640	
193-39-5	Indeno(1,2,3-c,d)Pyrene	790	
91-57-6	2-Methylnaphthalene	130	J
91-20-3	Naphthalene	230	J

MW 8/15/10

(1) Cannot be separated from Diphenylamine

SW8270C

8

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO

1A-32

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81957 Mod. Ref No.: _____ SDG No : 10042219

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042219-010

Sample wt/vol: 30.04 (g/mL):g Lab File ID: 10042327.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 32 Decanted: (Y/N) N Date Received: 04/22/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/23/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/23/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
206-44-0	Fluoranthene	5,200	
85-01-8	Phenanthrene	4,900	
129-00-0	Pyrene	4,300	

MD
8/15/10

SW8270C

9

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-34

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81957 Mod. Ref No.: _____ SDG No : 10042219

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042219-011

Sample wt/vol: 30.05 (g/mL):g Lab File ID: 10042318.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 04/22/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/23/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/23/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	220	U
208-96-8	Acenaphthylene	220	U
120-12-7	Anthracene	220	U
56-55-3	Benzo(a)anthracene	170	J
50-32-8	Benzo(a)pyrene	160	
205-99-2	Benzo(b)fluoranthene	160	J
191-24-2	Benzo(g,h,i)perylene	220	U
207-08-9	Benzo(k)fluoranthene	140	J
218-01-9	Chrysene	170	J
53-70-3	Dibenz(a,h)Anthracene	31	U
206-44-0	Fluoranthene	370	
86-73-7	Fluorene	220	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	220	U
91-57-6	2-Methylnaphthalene	220	U
91-20-3	Naphthalene	220	U
85-01-8	Phenanthrene	220	U
129-00-0	Pyrene	260	

MW
8/15/10

SW8270C

10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-44

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81957 Mod Ref No.: _____ SDG No : 10042219

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042219-012

Sample wt/vol: 30.1 (g/mL): g Lab File ID: 10042319.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 26 Decanted: (Y/N) N Date Received: 04/22/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/23/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/23/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	180	J
208-96-8	Acenaphthylene	220	U
120-12-7	Anthracene	240	
56-55-3	Benzo(a)anthracene	850	
50-32-8	Benzo(a)pyrene	800	
205-99-2	Benzo(b)fluoranthene	920	
191-24-2	Benzo(g,h,i)perylene	400	
207-08-9	Benzo(k)fluoranthene	670	
218-01-9	Chrysene	910	
53-70-3	Dibenz(a,h)Anthracene	110	
206-44-0	Fluoranthene	2,000	
86-73-7	Fluorene	220	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	480	
91-57-6	2-Methylnaphthalene	220	U
91-20-3	Naphthalene	220	U
85-01-8	Phenanthrene	1,200	
129-00-0	Pyrene	1,700	

AW
8/15/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
1A-47

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81979 Mod. Ref No : _____ SDG No : 10042219

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042219-013

Sample wt/vol: 30.09 (g/mL):g Lab File ID: 10042529.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 04/22/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/23/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/26/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	6,200	
208-96-8	Acenaphthylene	2,100	U
120-12-7	Anthracene	7,100	
56-55-3	Benzo(a)anthracene	18,000	
50-32-8	Benzo(a)pyrene	17,000	
205-99-2	Benzo(b)fluoranthene	18,000	
191-24-2	Benzo(g,h,i)perylene	7,100	
207-08-9	Benzo(k)fluoranthene	15,000	
218-01-9	Chrysene	18,000	
53-70-3	Dibenz(a,h)Anthracene	1,600	
86-73-7	Fluorene	3,700	
193-39-5	Indeno(1,2,3-c,d)Pyrene	8,800	
91-57-6	2-Methylnaphthalene	2,100	U
91-20-3	Naphthalene	2,600	
85-01-8	Phenanthrene	27,000	

NW
8/15/10

SW8270C

11

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

1A-47

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81979 Mod. Ref No : _____ SDG No : 10042219

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042219-013

Sample wt/vol: 30.09 (g/mL):g Lab File ID: 10042529.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 04/22/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/23/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/26/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
206-44-0	Fluoranthene	40460	
129-00-0	Pyrene	39100	

NW 8/15/10

(1) Cannot be separated from Diphenylamine

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
1A-48

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81957 Mod. Ref No : _____ SDG No : 10042219

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042219-014

Sample wt/vol: 30.12 (g/mL):g Lab File ID: 10042323.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 04/22/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/23/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/23/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	250	
208-96-8	Acenaphthylene	220	U
120-12-7	Anthracene	360	
56-55-3	Benzo(a)anthracene	1,400	
50-32-8	Benzo(a)pyrene	1,200	
205-99-2	Benzo(b)fluoranthene	1,600	
191-24-2	Benzo(g,h,i)perylene	520	
207-08-9	Benzo(k)fluoranthene	790	
218-01-9	Chrysene	1,300	
53-70-3	Dibenz(a,h)Anthracene	150	
206-44-0	Fluoranthene	3,000	
86-73-7	Fluorene	160	J
193-39-5	Indeno(1,2,3-c,d)Pyrene	650	
91-57-6	2-Methylnaphthalene	220	U
91-20-3	Naphthalene	220	U
85-01-8	Phenanthrene	1,400	
129-00-0	Pyrene	2,200	

WJ 8/15/10

(1) Cannot be separated from Diphenylamine

SW8270C

13

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

1A-49

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81957 Mod. Ref No : _____ SDG No : 10042219

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042219-015

Sample wt/vol: 30.08 (g/mL):g Lab File ID: 10042330.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23 Decanted: (Y/N) N Date Received: 04/22/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/23/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	600	
208-96-8	Acenaphthylene	220	U
120-12-7	Anthracene	830	
56-55-3	Benzo(a)anthracene	1,800	
50-32-8	Benzo(a)pyrene	1,500	
205-99-2	Benzo(b)fluoranthene	1,500	
191-24-2	Benzo(g,h,i)perylene	790	
207-08-9	Benzo(k)fluoranthene	1,200	
218-01-9	Chrysene	1,800	
53-70-3	Dibenz(a,h)Anthracene	210	
86-73-7	Fluorene	510	
193-39-5	Indeno(1,2,3-c,d)Pyrene	810	
91-57-6	2-Methylnaphthalene	230	
91-20-3	Naphthalene	210	J

hw 8/15/10

SW8270C

13

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

1A-49

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81957 Mod. Ref No.: _____ SDG No.: 10042219

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042219-015

Sample wt/vol: 30.08 (g/mL):g Lab File ID: 10042330.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23 Decanted: (Y/N) N Date Received: 04/22/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/23/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/24/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
206-44-0	Fluoranthene	3,800	
85-01-8	Phenanthrene	4,500	
129-00-0	Pyrene	5,700	

NW 8/15/10

(1) Cannot be separated from Diphenylamine

SW8270C

14

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-24

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81957 Mod. Ref No.: _____ SDG No : 10042219

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042219-019

Sample wt/vol: 30.14 (g/mL):g Lab File ID: 10042321.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 04/22/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/23/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/23/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	2,100	U	
208-96-8	Acenaphthylene	2,100	U	
120-12-7	Anthracene	2,100	U	
56-55-3	Benzo(a)anthracene	2,100	U	
50-32-8	Benzo(a)pyrene	460		J
205-99-2	Benzo(b)fluoranthene	2,100	U	
191-24-2	Benzo(g,h,i)perylene	2,100	U	
207-08-9	Benzo(k)fluoranthene	2,100	U	
218-01-9	Chrysene	2,100	U	
53-70-3	Dibenz(a,h)Anthracene	290	U	
206-44-0	Fluoranthene	1,200	~~Y~~	J
86-73-7	Fluorene	2,100	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	2,100	U	
91-57-6	2-Methylnaphthalene	2,100	U	
91-20-3	Naphthalene	2,100	U	
85-01-8	Phenanthrene	2,100	U	
129-00-0	Pyrene	1,100	~~Y~~	J

MW
8/15/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-25

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81957 Mod. Ref No : _____ SDG No.: 10042219

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042219-020

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10042328.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 29 Decanted: (Y/N) N Date Received: 04/22/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/23/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/23/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	380	
208-96-8	Acenaphthylene	230	U
120-12-7	Anthracene	630	
56-55-3	Benzo(a)anthracene	1,800	
50-32-8	Benzo(a)pyrene	1,600	
205-99-2	Benzo(b)fluoranthene	1,900	
191-24-2	Benzo(g,h,i)perylene	680	
207-08-9	Benzo(k)fluoranthene	1,300	
218-01-9	Chrysene	1,900	
53-70-3	Dibenz(a,h)Anthracene	220	
86-73-7	Fluorene	390	
193-39-5	Indeno(1,2,3-c,d)Pyrene	800	
91-57-6	2-Methylnaphthalene	230	U
91-20-3	Naphthalene	120	J
85-01-8	Phenanthrene	2,700	
129-00-0	Pyrene	3,300	

NW
8/15/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-25

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81957 Mod Ref No.: _____ SDG No : 10042219

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042219-020

Sample wt/vol: 30.06 (g/mL):g Lab File ID: 10042328.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 29 Decanted: (Y/N) N Date Received: 04/22/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/23/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/23/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
206-44-0	Fluoranthene	4,400	

lw 8/15/10

(1) Cannot be separated from Diphenylamine

SW8270C

ENVIRONMENTAL
Data Services, Inc.

TAL METALS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10042219

Client: ARGO Systems, Glen Burnie, MD Date: August 15, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	NR-31	10042219-004	Soil
1MS	NR-31MS	10042219-004MS	Soil
1MSD	NR-31MSD	10042219-004MSD	Soil
2*	NR-46	10042219-005	Soil
3*	NR-58	10042219-006	Soil
4*	1A-44	10042219-012	Soil
5*	1A-47	10042219-013	Soil
6*	1A-56	10042219-016	Soil
7*	1A-66	10042219-017	Soil
8	1A-70	10042219-018	Soil
9	DUP-24	10042219-019	Soil

* - *Arsenic only*

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level mg/kg	Qualifier	Affected Samples
EB-5	Arsenic	0.6	1.5	None	All > 5X
	Zinc	10	25	None	
EB-6	Arsenic	0.6	1.5	None	All > 5X
	Zinc	13	32.5	None	

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier	Affected Samples
1	Antimony	69%/63%/OK	L/UL	1, 8, 9
	Chromium	355%/201%/53	K	
	Nickel	862%/526%/48	K	
	Zinc	13%/35%/92	L/R	

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate results are summarized below.

Compound	NR-31 mg/kg	DUP-24 mg/kg	RPD	Qualifier
Arsenic	13	20	42%	None
Chromium	25	86	110%	None-already qualified
Copper	11	13	17%	None
Lead	32	43	29%	None
Mercury	0.11 U	0.07	NC	None
Nickel	49	210	124%	None-already qualified
Thallium	0.32	0.5 U	NC	None
Zinc	64	55	15%	None

Compound Quantitation - All criteria were met.

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-31 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10042219

Matrix (soil/water): SOIL Lab Sample ID: 10042219-004

Level (low/med): LOW Date Received: 04/22/2010

% Solids: 82 Batch #: 81956

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.9	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	13			MS	
7440-41-7	Beryllium	2.9	U		MS	
7440-43-9	Cadmium	2.9	U		MS	
7440-47-3	Chromium	25		~~N~~	MS	K
7440-50-8	Copper	11			MS	
7439-92-1	Lead	32			MS	
7439-97-6	Mercury	0.11	U		MS	
7440-02-0	Nickel	49		~~N~~	MS	K
7782-49-2	Selenium	2.9	U		MS	
7440-22-4	Silver	2.9	U		MS	
7440-28-0	Thallium	0.32	J		MS	
7440-66-6	Zinc	64		~~N~~	MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 8/15/10

FORM IA - IN SW6020

2

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-46

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10042219

Matrix (soil/water): SOIL Lab Sample ID: 10042219-005

Level (low/med): LOW Date Received: 04/22/2010

% Solids: 82 Batch #: 81956

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.0			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 8/15/10

FORM IA - IN SW6020

3

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-58

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No : 10042219

Matrix (soil/water): SOIL Lab Sample ID: 10042219-006

Level (low/med): LOW Date Received: 04/22/2010

% Solids: 90.8 Batch #: 81956

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	14			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
8/15/10

FORM IA - IN SW6020

4

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A-44

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10042219

Matrix (soil/water): SOIL Lab Sample ID: 10042219-012

Level (low/med): LOW Date Received: 04/22/2010

% Solids: 74 Batch #: 81956

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.5			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/15/10

5

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A-47

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10042219

Matrix (soil/water): SOIL Lab Sample ID: 10042219-013

Level (low/med): LOW Date Received: 04/22/2010

% Solids: 80 Batch #: 81956

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.6			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 8/15/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A-56

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10042219

Matrix (soil/water): SOIL Lab Sample ID: 10042219-016

Level (low/med): LOW Date Received: 04/22/2010

% Solids: 78 Batch #: 81956

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.5			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NJ
8/15/10

FORM IA - IN SW6020

7

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A-66

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10042219

Matrix (soil/water): SOIL Lab Sample ID: 10042219-017

Level (low/med): LOW Date Received: 04/22/2010

% Solids: 78 Batch #: 81956

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	17			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 8/15/10

FORM IA - IN SW6020

8

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
1A-70

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No.: 10042219

Matrix (soil/water): SOIL Lab Sample ID: 10042219-018

Level (low/med): LOW Date Received: 04/22/2010

% Solids: 83 Batch #: 81956

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.9	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	7.0			MS	
7440-41-7	Beryllium	2.9	U		MS	
7440-43-9	Cadmium	2.9	U		MS	
7440-47-3	Chromium	24		~~N~~	MS	K
7440-50-8	Copper	17			MS	
7439-92-1	Lead	120			MS	
7439-97-6	Mercury	0.40			MS	
7440-02-0	Nickel	13		~~N~~	MS	K
7782-49-2	Selenium	2.9	U		MS	
7440-22-4	Silver	2.9	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	99		~~N~~	MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

KW
8/15/10

FORM IA - IN SW6020

9

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-24

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10042219

Matrix (soil/water): SOIL Lab Sample ID: 10042219-019

Level (low/med): LOW Date Received: 04/22/2010

% Solids: 80 Batch #: 81956

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.6	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	20			MS	
7440-41-7	Beryllium	2.6	U		MS	
7440-43-9	Cadmium	2.6	U		MS	
7440-47-3	Chromium	86		~~N~~	MS	K
7440-50-8	Copper	13			MS	
7439-92-1	Lead	43			MS	
7439-97-6	Mercury	0.07	J		MS	
7440-02-0	Nickel	210		~~N~~	MS	K
7782-49-2	Selenium	2.6	U		MS	
7440-22-4	Silver	2.6	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	55		~~N~~	MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/15/10

FORM IA - IN SW6020

ENVIRONMENTAL
Data Services, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10042216

Client: ARGO Systems, Glen Burnie, MD Date: August 15, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	NR-50	10042216-001	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria except the following.

Sample ID	Internal Standard	Area Count	Qualifier
1	IS6=Perylene-d12	Low	J/UJ

Method Blank - The method blanks were free of contamination.

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level mg/kg	Qualifier	Affected Samples
EB-5	None-ND	-	-	-	-
EB-6	None-ND	-	-	-	-

Field Duplicates - Field duplicate samples were not analyzed.

Compound Quantitation - This sample was analyzed at a 10X dilution due to high concentrations of target compounds.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-50

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81957 Mod. Ref No : _____ SDG No : 10042216

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042216-001

Sample wt/vol: 30.12 (g/mL):g Lab File ID: 10042310.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 04/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/23/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/23/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	1,100	J	
208-96-8	Acenaphthylene	2,100	U	
120-12-7	Anthracene	1,400	J	
56-55-3	Benzo(a)anthracene	3,100		
50-32-8	Benzo(a)pyrene	2,500		J
205-99-2	Benzo(b)fluoranthene	3,000		J
191-24-2	Benzo(g,h,i)perylene	2,100	~~U~~	UJ
207-08-9	Benzo(k)fluoranthene	2,600		J
218-01-9	Chrysene	3,100		
53-70-3	Dibenz(a,h)Anthracene	370		J
206-44-0	Fluoranthene	7,700		
86-73-7	Fluorene	2,100	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	1,300	~~J~~	J
91-57-6	2-Methylnaphthalene	2,100	U	
91-20-3	Naphthalene	2,100	U	
85-01-8	Phenanthrene	5,800		
129-00-0	Pyrene	7,400		

KW
8/15/10

SW8270C

ENVIRONMENTAL
Data Services, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10042106

Client: ARGO Systems, Glen Burnie, MD Date: August 15, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	EB-5	10042106-001	Water
2	EB-6	10042106-002	Water

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 7 days for water samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level mg/kg	Qualifier	Affected Samples
EB-5	None-ND	-	-	-	-
EB-6	None-ND	-	-	-	-

Field Duplicates - Field duplicate samples were not analyzed.

Compound Quantitation - No discrepancies were identified.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
EB-5

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 82017 Mod. Ref No : _____ SDG No : 10042106

Matrix : (SOIL/SED/WATER) WATER Lab Sample Id: 10042106-001

Sample wt/vol: 1000 (g/mL): ml Lab File ID: 10042517.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) CLEAR Date Received: 04/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/22/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
83-32-9	Acenaphthene	5	U
208-96-8	Acenaphthylene	5	U
120-12-7	Anthracene	5	U
56-55-3	Benzo(a)anthracene	0.5	U
50-32-8	Benzo(a)pyrene	0.5	U
205-99-2	Benzo(b)fluoranthene	0.5	U
191-24-2	Benzo(g,h,i)perylene	5	U
207-08-9	Benzo(k)fluoranthene	0.5	U
218-01-9	Chrysene	2	U
53-70-3	Dibenz(a,h)Anthracene	0.5	U
206-44-0	Fluoranthene	5	U
86-73-7	Fluorene	5	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.5	U
91-57-6	2-Methylnaphthalene	2	U
91-20-3	Naphthalene	0.5	U
85-01-8	Phenanthrene	5	U
129-00-0	Pyrene	5	U

uw
8/13/10

SW8270C

2

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
EB-6

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 82017 Mod. Ref No : _____ SDG No : 10042106

Matrix : (SOIL/SED/WATER) WATER Lab Sample Id: 10042106-002

Sample wt/vol: 1000 (g/mL): ml Lab File ID: 10042518.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) CLEAR Date Received: 04/21/2010

Concentrated Extract Volume: 1 (µL) Date Extracted: 04/22/2010

Injection Volume: _____ (µL) GPC Factor: 1.000 Date Analyzed: 04/25/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
83-32-9	Acenaphthene	5	U
208-96-8	Acenaphthylene	5	U
120-12-7	Anthracene	5	U
56-55-3	Benzo(a)anthracene	0.5	U
50-32-8	Benzo(a)pyrene	0.5	U
205-99-2	Benzo(b)fluoranthene	0.5	U
191-24-2	Benzo(g,h,i)perylene	5	U
207-08-9	Benzo(k)fluoranthene	0.5	U
218-01-9	Chrysene	2	U
53-70-3	Dibenz(a,h)Anthracene	0.5	U
206-44-0	Fluoranthene	5	U
86-73-7	Fluorene	5	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.5	U
91-57-6	2-Methylnaphthalene	2	U
91-20-3	Naphthalene	0.5	U
85-01-8	Phenanthrene	5	U
129-00-0	Pyrene	5	U

MW 8/13/10

(1) Cannot be separated from Diphenylamine

SW8270C

ENVIRONMENTAL
Data Services, Inc.

TAL METALS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10042106

Client: ARGO Systems, Glen Burnie, MD Date: August 15, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	EB-5	10042106-001	Water
1MS	EB-5MS	10042106-001MS	Water
1MSD	EB-5MSD	10042106-001MSD	Water
2	EB-6	10042106-002	Water

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable except the following.

Compound	%R	Qualifier	Affected Samples
(CCV) Mercury	86%	J/UJ	Both samples

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level mg/kg	Qualifier	Affected Samples
EB-5	Arsenic	0.6	1.5	None	To be applied to other packages
	Zinc	10	25	None	
EB-6	Arsenic	0.6	1.5	None	
	Zinc	13	32.5	None	

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier	Affected Samples
1	Selenium	71%/70%/OK	None	See LCS

LCS - The LCS samples exhibited acceptable %R values except the following.

LCS ID	Compound	%R	Qualifier	Affected Samples
LCS	Mercury	61%	None	See Calibration
	Selenium	71%	J/UJ	Both samples

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate samples were not analyzed.

Compound Quantitation - All criteria were met.

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB-5

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10042106

Matrix (soil/water): WATER Lab Sample ID: 10042106-001

Level (low/med): LOW Date Received: 04/21/2010

% Solids: _____ Batch #: 81946

Concentration Units (ug/ L or mg/kg dry weight) UG/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	1.0	U		MS	
7440-38-2	Arsenic	0.6	J		MS	
7440-41-7	Beryllium	0.5	U		MS	
7440-43-9	Cadmium	1.0	U		MS	
7440-47-3	Chromium	1.0	U		MS	
7440-50-8	Copper	1.0	U		MS	
7439-92-1	Lead	1.0	U		MS	
7439-97-6	Mercury	0.20	~~U~~		MS	UJ
7440-02-0	Nickel	1.0	U		MS	
7782-49-2	Selenium	1.0	~~U~~	~~N~~	MS	UJ
7440-22-4	Silver	1.0	U		MS	
7440-28-0	Thallium	1.0	U		MS	
7440-66-6	Zinc	10	J		MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

UW
8/15/10

FORM IA - IN SW6020

2

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB-6

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10042106

Matrix (soil/water): WATER Lab Sample ID: 10042106-002

Level (low/med): LOW Date Received: 04/21/2010

% Solids: _____ Batch #: 81946

Concentration Units (ug/ L or mg/kg dry weight) UG/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	1.0	U		MS	
7440-38-2	Arsenic	0.6	J		MS	
7440-41-7	Beryllium	0.5	U		MS	
7440-43-9	Cadmium	1.0	U		MS	
7440-47-3	Chromium	1.0	U		MS	
7440-50-8	Copper	1.0	U		MS	
7439-92-1	Lead	1.0	U		MS	
7439-97-6	Mercury	0.20	~~U~~		MS	UJ
7440-02-0	Nickel	1.0	U		MS	
7782-49-2	Selenium	1.0	~~U~~	~~N~~	MS	UJ
7440-22-4	Silver	1.0	U		MS	
7440-28-0	Thallium	1.0	U		MS	
7440-66-6	Zinc	13	J		MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
8/15/10

FORM IA - IN SW6020

ENVIRONMENTAL
Data Services, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10042105

Client: ARGO Systems, Glen Burnie, MD Date: August 15, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	R-70	10042105-001	Soil
2	R-72	10042105-002	Soil
3	R-97	10042105-003	Soil
4	R-173	10042105-006	Soil
5	NR-21	10042105-007	Soil
5MS	NR-21MS	10042105-007MS	Soil
5MSD	NR-21MSD	10042105-007MSD	Soil
6	NR-22	10042105-008	Soil
7	NR-23	10042105-009	Soil
8	NR-38	10042105-011	Soil
9	NR-41	10042105-012	Soil
10	DUP-23	10042105-014	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - All samples exhibited acceptable surrogate recoveries except the following.

Sample ID	Surrogate	%R	Qualifier
7	Terphenyl-d14	175%	None for 1 out

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier
5	Benzo(b)fluoranthene	OK/161%/OK	None- See IS
	Benzo(g,h,i)perylene	OK/OK/34	None for RPD only
	Phenanthrene	OK/OK/40	None for RPD only
	Pyrene	OK/285%/OK	None- See IS

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria except the following.

Sample ID	Internal Standard	Area Count	Qualifier
1	IS6=Perylene-d12	Low	J/UJ- associated compounds
5	IS5=Chrysene-d12	Low	J/UJ- associated compounds
	IS6=Perylene-d12	Severely low	J/R- associated compounds
6	IS6=Perylene-d12	Low	J/UJ- associated compounds
10	IS5=Chrysene-d12	Low	J/UJ- associated compounds
	IS6=Perylene-d12	Severely low	J/R- associated compounds

Method Blank - The method blanks were free of contamination.

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level mg/kg	Qualifier	Affected Samples
EB-5	None-ND	-	-	-	-
EB-6	None-ND	-	-	-	-

Field Duplicates - Field duplicate results are summarized below.

Compound	NR-21 ug/kg	DUP-23 ug/kg	RPD	Qualifier
Acenaphthene	240	140	53%	None
Anthracene	340	210	47%	None

Compound	NR-21 ug/kg	DUP-23 ug/kg	RPD	Qualifier
Benzo(a)anthracene	960	780	21%	None
Benzo(a)pyrene	880	750	16%	None
Benzo(b)fluoranthene	990	850	15%	None
Benzo(g,h,i)perylene	320	430	29%	None
Benzo(k)fluoranthene	720	720	0%	None
Chrysene	1000	810	21%	None
Dibenz(a,h)Anthracene	100	210	71%	None
Fluoranthene	1800	1400	25%	None
Fluorene	190	110	53%	None
Indeno(1,2,3-cd)Pyrene	350	430	21%	None
Phenanthrene	1600	1100	37%	None
Pyrene	2500	2600	4%	None

Compound Quantitation - No discrepancies were identified.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-70

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81952 Mod. Ref No : _____ SDG No.: 10042105

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042105-001

Sample wt/vol: 30.29 (g/mL):g Lab File ID: 10042303.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 04/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/23/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	200	U	
208-96-8	Acenaphthylene	200	U	
120-12-7	Anthracene	200	U	
56-55-3	Benzo(a)anthracene	280		
50-32-8	Benzo(a)pyrene	290		J
205-99-2	Benzo(b)fluoranthene	340		J
191-24-2	Benzo(g,h,i)perylene	120	~~J~~	J
207-08-9	Benzo(k)fluoranthene	250		J
218-01-9	Chrysene	310		
53-70-3	Dibenz(a,h)Anthracene	39		J
206-44-0	Fluoranthene	510		
86-73-7	Fluorene	200	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	130	~~J~~	J
91-57-6	2-Methylnaphthalene	200	U	
91-20-3	Naphthalene	200	U	
85-01-8	Phenanthrene	280		
129-00-0	Pyrene	650		

MW 8/15/10

SW8270C

2

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-72

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81952 Mod. Ref No : _____ SDG No.: 10042105

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042105-002

Sample wt/vol: 30.41 (g/mL):g Lab File ID: 10042210.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 04/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/22/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	320	
50-32-8	Benzo(a)pyrene	290	
205-99-2	Benzo(b)fluoranthene	350	
191-24-2	Benzo(g,h,i)perylene	120	J
207-08-9	Benzo(k)fluoranthene	260	
218-01-9	Chrysene	340	
53-70-3	Dibenz(a,h)Anthracene	39	
206-44-0	Fluoranthene	720	
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	140	J
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	460	
129-00-0	Pyrene	610	

NW
8/15/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-97

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81952 Mod. Ref No : _____ SDG No : 10042105

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042105-003

Sample wt/vol: 30.37 (g/mL):g Lab File ID: 10042211.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23 Decanted: (Y/N) N Date Received: 04/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/22/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	370	
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	430	
56-55-3	Benzo(a)anthracene	1,300	
50-32-8	Benzo(a)pyrene	1,100	
205-99-2	Benzo(b)fluoranthene	1,100	
191-24-2	Benzo(g,h,i)perylene	380	
207-08-9	Benzo(k)fluoranthene	800	
218-01-9	Chrysene	1,400	
53-70-3	Dibenz(a,h)Anthracene	120	
206-44-0	Fluoranthene	2,500	
86-73-7	Fluorene	250	
193-39-5	Indeno(1,2,3-c,d)Pyrene	430	
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	2,000	
129-00-0	Pyrene	2,600	

MW
8/15/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-173

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81952 Mod. Ref No.: _____ SDG No : 10042105

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042105-006

Sample wt/vol: 30.28 (g/mL):g Lab File ID: 10042212.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 04/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/22/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	98	J
56-55-3	Benzo(a)anthracene	320	
50-32-8	Benzo(a)pyrene	290	
205-99-2	Benzo(b)fluoranthene	340	
191-24-2	Benzo(g,h,i)perylene	100	J
207-08-9	Benzo(k)fluoranthene	300	
218-01-9	Chrysene	330	
53-70-3	Dibenz(a,h)Anthracene	33	
206-44-0	Fluoranthene	790	
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	130	J
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	470	
129-00-0	Pyrene	550	

MW
8/15/10

(1) Cannot be separated from Diphenylamine

5

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

NR-21 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81952 Mod. Ref No : _____ SDG No : 10042105

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042105-007

Sample wt/vol: 30.26 (g/mL):g Lab File ID: 10042304.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 04/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/23/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	240		
208-96-8	Acenaphthylene	210	U	
120-12-7	Anthracene	340		
56-55-3	Benzo(a)anthracene	960		J
50-32-8	Benzo(a)pyrene	880		J
205-99-2	Benzo(b)fluoranthene	990		
191-24-2	Benzo(g,h,i)perylene	320		
207-08-9	Benzo(k)fluoranthene	720		
218-01-9	Chrysene	1,000		J
53-70-3	Dibenz(a,h)Anthracene	100		J
206-44-0	Fluoranthene	1,800		
86-73-7	Fluorene	190	J	
193-39-5	Indeno(1,2,3-c,d)Pyrene	350		J
91-57-6	2-Methylnaphthalene	210	U	
91-20-3	Naphthalene	210	U	
85-01-8	Phenanthrene	1,600		
129-00-0	Pyrene	2,500		J

nw
8/15/10

6

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
NR-22

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81952 Mod. Ref No.: _____ SDG No : 10042105

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042105-008

Sample wt/vol: 30.32 (g/mL):g Lab File ID: 10042309.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 04/21/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 04/21/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 04/23/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	200	U	
208-96-8	Acenaphthylene	200	U	
120-12-7	Anthracene	200	U	
56-55-3	Benzo(a)anthracene	160	J	
50-32-8	Benzo(a)pyrene	150		J
205-99-2	Benzo(b)fluoranthene	190	~~J~~	J
191-24-2	Benzo(g,h,i)perylene	200	~~U~~	UJ
207-08-9	Benzo(k)fluoranthene	140	~~J~~	J
218-01-9	Chrysene	170	J	
53-70-3	Dibenz(a,h)Anthracene	39		J
206-44-0	Fluoranthene	320		
86-73-7	Fluorene	200	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	~~U~~	UJ
91-57-6	2-Methylnaphthalene	200	U	
91-20-3	Naphthalene	200	U	
85-01-8	Phenanthrene	210		
129-00-0	Pyrene	390		

nw
8/15/10

(1) Cannot be separated from Diphenylamine

SW8270C

7

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-23

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81952 Mod. Ref No.: _____ SDG No.: 10042105

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042105-009

Sample wt/vol: 30.38 (g/mL):g Lab File ID: 10042208.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 04/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/22/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

nw
8/15/10

8

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-38

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81952 Mod. Ref No : _____ SDG No.: 10042105

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042105-011

Sample wt/vol: 30.44 (g/mL):g Lab File ID: 10042207.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 04/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/22/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

MW
8/15/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-41

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81952 Mod. Ref No.: _____ SDG No : 10042105

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042105-012

Sample wt/vol: 30.28 (g/mL):g Lab File ID: 10042209.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 04/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/22/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	130	J
50-32-8	Benzo(a)pyrene	140	
205-99-2	Benzo(b)fluoranthene	160	J
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	120	J
218-01-9	Chrysene	130	J
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	300	
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	130	J
129-00-0	Pyrene	190	J

NW
8/15/10

10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-23

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81952 Mod. Ref No.: _____ SDG No.: 10042105

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042105-014

Sample wt/vol: 30.36 (g/mL):g Lab File ID: 10042308.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 04/21/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/21/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/23/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	140	J
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	
56-55-3	Benzo(a)anthracene	780	
50-32-8	Benzo(a)pyrene	750	
205-99-2	Benzo(b)fluoranthene	850	
191-24-2	Benzo(g,h,i)perylene	430	
207-08-9	Benzo(k)fluoranthene	720	
218-01-9	Chrysene	810	
53-70-3	Dibenz(a,h)Anthracene	210	
206-44-0	Fluoranthene	1,400	
86-73-7	Fluorene	110	J
193-39-5	Indeno(1,2,3-c,d)Pyrene	430	
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	1,100	
129-00-0	Pyrene	2,600	

J

J

J

lew
8/15/10

(1) Cannot be separated from Diphenylamine

ENVIRONMENTAL
Data Services, Inc.

TAL METALS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10042105

Client: ARGO Systems, Glen Burnie, MD Date: August 15, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	R-70	10042105-001	Soil
2*	R-72	10042105-002	Soil
3*	R-137	10042105-004	Soil
4*	R-151	10042105-005	Soil
5	NR-21	10042105-007	Soil
5MS	NR-21MS	10042105-007MS	Soil
5MSD	NR-21MSD	10042105-007MSD	Soil
6*	NR-32	10042105-010	Soil
7*	NR-43	10042105-013	Soil
8	DUP-23	10042105-014	Soil

** - Arsenic only*

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable except the following.

Compound	%R	Qualifier	Affected Samples
(CCVs) Mercury	88%/87%89%	J/UJ	1, 5, 8

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level mg/kg	Qualifier	Affected Samples
EB-5	Arsenic	0.6	1.5	None	All > 5X
	Zinc	10	25	None	
EB-6	Arsenic	0.6	1.5	None	All > 5X
	Zinc	13	32.5	None	

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier	Affected Samples
5	Nickel	OK/58%/66	L/UL	1, 5, 8
	Zinc	OK/70%/37	L/UL	

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate results are summarized below.

Compound	NR-21 mg/kg	DUP-23 mg/kg	RPD	Qualifier
Arsenic	4.9	5.1	4%	None
Chromium	30	44	38%	None
Copper	27	26	4%	None
Lead	68	63	8%	None
Mercury	0.15	0.11	31%	None
Nickel	36	69	63%	None
Thallium	0.47	0.29	47%	None
Zinc	110	110	0%	None

Compound Quantitation - All criteria were met.

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-70

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10042105

Matrix (soil/water): SOIL Lab Sample ID: 10042105-001

Level (low/med): LOW Date Received: 04/21/2010

% Solids: 82 Batch #: 81941

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.4	U		MS	
7440-38-2	Arsenic	5.9			MS	
7440-41-7	Beryllium	2.4	U		MS	
7440-43-9	Cadmium	2.4	U		MS	
7440-47-3	Chromium	24			MS	
7440-50-8	Copper	16			MS	
7439-92-1	Lead	68			MS	
7439-97-6	Mercury	0.24			MS	J
7440-02-0	Nickel	57			MS	L
7782-49-2	Selenium	2.4	U		MS	
7440-22-4	Silver	2.4	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	58			MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

RW
8/15/10

FORM IA - IN SW6020

2

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-72

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10042105

Matrix (soil/water): SOIL Lab Sample ID: 10042105-002

Level (low/med): LOW Date Received: 04/21/2010

% Solids: 82 Batch #: 81941

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.9			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

LW
8/15/10

FORM IA - IN SW6020

3

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-137

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10042105

Matrix (soil/water): SOIL Lab Sample ID: 10042105-004

Level (low/med): LOW Date Received: 04/21/2010

% Solids: 75 Batch #: 81941

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	10			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/15/10

4

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-151

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10042105

Matrix (soil/water): SOIL Lab Sample ID: 10042105-005

Level (low/med): LOW Date Received: 04/21/2010

% Solids: 87 Batch #: 81941

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.0			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/15/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
NR-21 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No : 10042105
Matrix (soil/water): SOIL Lab Sample ID: 10042105-007
Level (low/med): LOW Date Received: 04/21/2010
% Solids: 78 Batch #: 81941

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.0	U		MS	
7440-38-2	Arsenic	4.9			MS	
7440-41-7	Beryllium	3.0	U		MS	
7440-43-9	Cadmium	3.0	U		MS	
7440-47-3	Chromium	30			MS	
7440-50-8	Copper	27			MS	
7439-92-1	Lead	68			MS	
7439-97-6	Mercury	0.15			MS	J
7440-02-0	Nickel	36			MS	L
7782-49-2	Selenium	3.0	U		MS	
7440-22-4	Silver	3.0	U		MS	
7440-28-0	Thallium	0.47	J		MS	
7440-66-6	Zinc	110			MS	L

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

NW
8/15/10

6

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-32

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No.: 10042105

Matrix (soil/water): SOIL Lab Sample ID: 10042105-010

Level (low/med): LOW Date Received: 04/21/2010

% Solids: 85 Batch #: 81941

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	8.2			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
8/15/10

7

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-43

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10042105

Matrix (soil/water): SOIL Lab Sample ID: 10042105-013

Level (low/med): LOW Date Received: 04/21/2010

% Solids: 77 Batch #: 81941

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	7.6			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/15/10

FORM IA - IN SW6020

8

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-23

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10042105

Matrix (soil/water): SOIL Lab Sample ID: 10042105-014

Level (low/med): LOW Date Received: 04/21/2010

% Solids: 80 Batch #: 81941

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.7	U		MS
7440-38-2	Arsenic	5.1			MS
7440-41-7	Beryllium	2.7	U		MS
7440-43-9	Cadmium	2.7	U		MS
7440-47-3	Chromium	44			MS
7440-50-8	Copper	26			MS
7439-92-1	Lead	63			MS
7439-97-6	Mercury	0.11			MS J
7440-02-0	Nickel	69			MS L
7782-49-2	Selenium	2.7	U		MS
7440-22-4	Silver	2.7	U		MS
7440-28-0	Thallium	0.29	J		MS
7440-66-6	Zinc	110			MS L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/15/10

FORM IA - IN SW6020

ENVIRONMENTAL
Data Services, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10042015

Client: ARGO Systems, Glen Burnie, MD Date: August 14, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	R-58	10042015-001	Soil
2	R-63	10042015-002	Soil
2MS	R-63MS	10042015-002MS	Soil
2MSD	R-63MSD	10042015-002MSD	Soil
3	R-64	10042015-003	Soil
4	R-124	10042015-005	Soil
5	NR-17	10042015-006	Soil
6	NR-18	10042015-007	Soil
7	NR-47	10042015-010	Soil
8	NR-64	10042015-011	Soil
9	DUP-18	10042015-013	Soil
10	DUP-21	10042015-016	Soil
11	DUP-22	10042015-017	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - All samples exhibited acceptable surrogate recoveries except the following.

Sample ID	Surrogate	%R	Qualifier
4	S1=2-Fluorobiphenyl	46%	L/UL unless UJ
	S3=Nitrobenzene-d5	42%	
5	S1=2-Fluorobiphenyl	46%	L/UL unless UJ
	S3=Nitrobenzene-d5	41%	
7	S1=2-Fluorobiphenyl	114%	None for 1 out

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier
2	Benzo(g,h,i)perylene	OK/OK/46	None for RPD only
	Dibenz(a,h)Anthracene	OK/OK/53	None for RPD only
	Indeno(1,2,3-c,d)Pyrene	OK/OK/46	None for RPD only
	Pyrene	212%/OK/OK	None- See IS

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria except the following.

Sample ID	Internal Standard	Area Count	Qualifier
1	IS5=Chrysene-d12	Low	J/UJ- associated compounds
	IS6=Perylene-d12	Severely Low	J/R- associated compounds
2	IS5=Chrysene-d12	Low	J/UJ- associated compounds
	IS6=Perylene-d12	Severely Low	J/R- associated compounds
3	IS5=Chrysene-d12	Low	J/UJ- associated compounds
	IS6=Perylene-d12	Low	J/UJ- associated compounds
4	IS6=Perylene-d12	Low	J/UJ- associated compounds
5	IS6=Perylene-d12	Low	J/UJ- associated compounds
6	IS6=Perylene-d12	Low	J/UJ- associated compounds
7	IS5=Chrysene-d12	Low	J/UJ- associated compounds
	IS6=Perylene-d12	Severely Low	J/R- associated compounds
8	IS6=Perylene-d12	Low	J/UJ- associated compounds
9	IS5=Chrysene-d12	Low	J/UJ- associated compounds
	IS6=Perylene-d12	Severely Low	J/R- associated compounds
10	IS6=Perylene-d12	Low	J/UJ- associated compounds
11	IS6=Perylene-d12	Low	J/UJ- associated compounds

Method Blank - The method blanks were free of contamination.

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level mg/kg	Qualifier	Affected Samples
EB-5	None-ND	-	-	-	-
EB-6	None-ND	-	-	-	-

Field Duplicates - Field duplicate results are summarized below.

Compound	R-63 ug/kg	DUP-18 ug/kg	RPD	Qualifier
Anthracene	210 U	160	NC	None
Benzo(a)anthracene	740	960	26%	None
Benzo(a)pyrene	680	800	16%	None
Benzo(b)fluoranthene	690	690	0%	None
Benzo(g,h,i)perylene	280	350	22%	None
Benzo(k)fluoranthene	530	680	25%	None
Chrysene	880	1200	31%	None
Dibenz(a,h)Anthracene	73	88	19%	None
Fluoranthene	1000	1400	33%	None
Fluorene	210 U	160	NC	None
Indeno(1,2,3-cd)Pyrene	260	330	24%	None
2-Methylnaphthalene	210 U	100	NC	None
Phenanthrene	870	1700	65%	None
Pyrene	2300	2500	8%	None

Compound	NR-18 ug/kg	DUP-21 ug/kg	RPD	Qualifier
Anthracene	140	260 U	NC	None
Benzo(a)anthracene	420	260 U	NC	None
Benzo(a)pyrene	370	97	117%	J
Benzo(b)fluoranthene	460	260	56%	None
Benzo(g,h,i)perylene	140	260	60%	None
Benzo(k)fluoranthene	320	260	21%	None
Chrysene	420	260 U	NC	None
Dibenz(a,h)Anthracene	32	36 U	NC	None
Fluoranthene	820	210	118%	J
Indeno(1,2,3-cd)Pyrene	160	260 U	NC	None
Phenanthrene	540	130	122%	J
Pyrene	950	240	119%	J

Compound	NR-64 ug/kg	DUP-22 ug/kg	RPD	Qualifier
Benzo(a)anthracene	310	240	25%	None
Benzo(a)pyrene	280	230	20%	None
Benzo(b)fluoranthene	420	360	15%	None
Benzo(g,h,i)perylene	120	100	18%	None
Benzo(k)fluoranthene	280	250	11%	None
Chrysene	340	290	16%	None
Dibenz(a,h)Anthracene	35	32	9%	None

Compound	NR-64 ug/kg	DUP-22 ug/kg	RPD	Qualifier
Fluoranthene	660	490	30%	None
Indeno(1,2,3-cd)Pyrene	140	130	7%	None
Phenanthrene	320	160	67%	None
Pyrene	660	520	24%	None

Compound Quantitation - EDS sample ID# 9 was analyzed at a 10X dilution due to high concentrations of target compounds.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-58

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81918 Mod. Ref No.: _____ SDG No.: 10042015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042015-001

Sample wt/vol: 30.41 (g/mL): g Lab File ID: 10042133.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 04/20/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	190	U	
208-96-8	Acenaphthylene	190	U	
120-12-7	Anthracene	190	U	
56-55-3	Benzo(a)anthracene	190	~~U~~	UJ
50-32-8	Benzo(a)pyrene	89		J
205-99-2	Benzo(b)fluoranthene	190	~~U~~	R
191-24-2	Benzo(g,h,i)perylene	190	~~U~~	R
207-08-9	Benzo(k)fluoranthene	190	~~U~~	R
218-01-9	Chrysene	190	~~U~~	UJ
53-70-3	Dibenz(a,h)Anthracene	27	~~U~~	R
206-44-0	Fluoranthene	160	J	
86-73-7	Fluorene	190	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	~~U~~	R
91-57-6	2-Methylnaphthalene	190	U	
91-20-3	Naphthalene	190	U	
85-01-8	Phenanthrene	140	J	
129-00-0	Pyrene	240		J

MW
8/14/10

SW8270C

2

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-63 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81918 Mod. Ref No.: _____ SDG No.: 10042015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042015-002

Sample wt/vol: 30.22 (g/mL):g Lab File ID: 10042132.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 04/20/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	210	U	
208-96-8	Acenaphthylene	210	U	
120-12-7	Anthracene	210	U	
56-55-3	Benzo(a)anthracene	740		J
50-32-8	Benzo(a)pyrene	680		J
205-99-2	Benzo(b)fluoranthene	690		↓
191-24-2	Benzo(g,h,i)perylene	280		
207-08-9	Benzo(k)fluoranthene	530		
218-01-9	Chrysene	880		J
53-70-3	Dibenz(a,h)Anthracene	73		J
206-44-0	Fluoranthene	1,000		
86-73-7	Fluorene	210	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	260		J
91-57-6	2-Methylnaphthalene	210	U	
91-20-3	Naphthalene	210	U	
85-01-8	Phenanthrene	870		
129-00-0	Pyrene	2,300		J

MW
8/19/10

(1) Cannot be separated from Diphenylamine

SW8270C

3

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-64

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81918 Mod. Ref No.: _____ SDG No.: 10042015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042015-003

Sample wt/vol: 30.38 (g/mL):g Lab File ID: 10042131.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 28 Decanted: (Y/N) N Date Received: 04/20/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	230	U	
208-96-8	Acenaphthylene	230	U	
120-12-7	Anthracene	230	U	
56-55-3	Benzo(a)anthracene	230	~~U~~	UJ
50-32-8	Benzo(a)pyrene	36		
205-99-2	Benzo(b)fluoranthene	230	U	
191-24-2	Benzo(g,h,i)perylene	230	U	
207-08-9	Benzo(k)fluoranthene	230	U	
218-01-9	Chrysene	230	~~U~~	UJ
53-70-3	Dibenz(a,h)Anthracene	32	U	
206-44-0	Fluoranthene	230	U	
86-73-7	Fluorene	230	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	230	U	
91-57-6	2-Methylnaphthalene	230	U	
91-20-3	Naphthalene	230	U	
85-01-8	Phenanthrene	230	U	
129-00-0	Pyrene	230	~~U~~	UJ

NW
8/19/10

SW8270C

4

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-124

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81918 Mod Ref No : _____ SDG No.: 10042015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042015-005

Sample wt/vol: 30.29 (g/mL):g Lab File ID: 10042130.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.3 Decanted: (Y/N) N Date Received: 04/20/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	180	U	UL
208-96-8	Acenaphthylene	180	U	
120-12-7	Anthracene	180	U	
56-55-3	Benzo(a)anthracene	180	U	
50-32-8	Benzo(a)pyrene	25	U	UJ
205-99-2	Benzo(b)fluoranthene	180	U	UJ
191-24-2	Benzo(g,h,i)perylene	180	U	UJ
207-08-9	Benzo(k)fluoranthene	180	U	UJ
218-01-9	Chrysene	180	U	UL
53-70-3	Dibenz(a,h)Anthracene	25	U	UJ
206-44-0	Fluoranthene	180	U	UL
86-73-7	Fluorene	180	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	U	UJ
91-57-6	2-Methylnaphthalene	180	U	UL
91-20-3	Naphthalene	180	U	
85-01-8	Phenanthrene	180	U	
129-00-0	Pyrene	180	U	

MW
8/14/10

(1) Cannot be separated from Diphenylamine

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-17

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81918 Mod Ref No.: _____ SDG No.: 10042015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042015-006

Sample wt/vol: 30.31 (g/mL): g Lab File ID: 10042129.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 04/20/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	200	U	UL
208-96-8	Acenaphthylene	200	U	
120-12-7	Anthracene	200	U	
56-55-3	Benzo(a)anthracene	200	U	
50-32-8	Benzo(a)pyrene	56		J
205-99-2	Benzo(b)fluoranthene	200	U	UJ
191-24-2	Benzo(g,h,i)perylene	200	U	UJ
207-08-9	Benzo(k)fluoranthene	200	U	UJ
218-01-9	Chrysene	200	U	UL
53-70-3	Dibenz(a,h)Anthracene	28	U	UJ
206-44-0	Fluoranthene	200	U	UL
86-73-7	Fluorene	200	U	UL
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U	UJ
91-57-6	2-Methylnaphthalene	200	U	UL
91-20-3	Naphthalene	200	U	
85-01-8	Phenanthrene	200	U	
129-00-0	Pyrene	200	U	

MW
8/19/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-18

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81918 Mod. Ref No.: _____ SDG No.: 10042015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042015-007

Sample wt/vol: 30.35 (g/mL): g Lab File ID: 10042124.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 04/20/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	200	U	
208-96-8	Acenaphthylene	200	U	
120-12-7	Anthracene	140	J	
56-55-3	Benzo(a)anthracene	420		
50-32-8	Benzo(a)pyrene	370		J
205-99-2	Benzo(b)fluoranthene	460		
191-24-2	Benzo(g,h,i)perylene	140	J	
207-08-9	Benzo(k)fluoranthene	320		
218-01-9	Chrysene	420		
53-70-3	Dibenz(a,h)Anthracene	32		J
206-44-0	Fluoranthene	820		
86-73-7	Fluorene	200	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	160	~~J~~	J
91-57-6	2-Methylnaphthalene	200	U	
91-20-3	Naphthalene	200	U	
85-01-8	Phenanthrene	540		
129-00-0	Pyrene	950		

MW
8/19/10

(1) Cannot be separated from Diphenylamine

SW8270C

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1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

NR-47

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81918 Mod Ref No : _____ SDG No.: 10042015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042015-010

Sample wt/vol: 30.27 (g/mL):g Lab File ID: 10042134.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 04/20/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	210	U	
208-96-8	Acenaphthylene	210	U	
120-12-7	Anthracene	210	U	
56-55-3	Benzo(a)anthracene	110	~~J~~	J
50-32-8	Benzo(a)pyrene	100		J
205-99-2	Benzo(b)fluoranthene	130	~~J~~	J
191-24-2	Benzo(g,h,i)perylene	210	~~U~~	R
207-08-9	Benzo(k)fluoranthene	210	~~U~~	R
218-01-9	Chrysene	120	~~J~~	J
53-70-3	Dibenz(a,h)Anthracene	29	~~U~~	R
206-44-0	Fluoranthene	230		
86-73-7	Fluorene	210	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	~~U~~	R
91-57-6	2-Methylnaphthalene	210	U	
91-20-3	Naphthalene	210	U	
85-01-8	Phenanthrene	130	J	
129-00-0	Pyrene	290		J

MW
8/14/10

SW8270C

8

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
NR-64

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81918 Mod Ref No.: _____ SDG No.: 10042015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042015-011

Sample wt/vol: 30.25 (g/mL):g Lab File ID: 10042127.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 04/20/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	200	U	
208-96-8	Acenaphthylene	200	U	
120-12-7	Anthracene	200	U	
56-55-3	Benzo(a)anthracene	310		
50-32-8	Benzo(a)pyrene	280		J
205-99-2	Benzo(b)fluoranthene	420		
191-24-2	Benzo(g,h,i)perylene	120	~~J~~	
207-08-9	Benzo(k)fluoranthene	280		
218-01-9	Chrysene	340		
53-70-3	Dibenz(a,h)Anthracene	35		J
206-44-0	Fluoranthene	660		
86-73-7	Fluorene	200	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	140	~~J~~	J
91-57-6	2-Methylnaphthalene	200	U	
91-20-3	Naphthalene	200	U	
85-01-8	Phenanthrene	320		
129-00-0	Pyrene	660		

nw
8/14/10

(1) Cannot be separated from Diphenylamine

SW8270C

9

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-18

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81918 Mod Ref No : _____ SDG No : 10042015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042015-013

Sample wt/vol: 30.19 (g/mL):g Lab File ID: 10042128.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 04/20/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	200	U	
208-96-8	Acenaphthylene	200	U	
120-12-7	Anthracene	160	J	
56-55-3	Benzo(a)anthracene	960		J
50-32-8	Benzo(a)pyrene	800		
205-99-2	Benzo(b)fluoranthene	690		
191-24-2	Benzo(g,h,i)perylene	350		
207-08-9	Benzo(k)fluoranthene	680		
218-01-9	Chrysene	1,200		J
53-70-3	Dibenz(a,h)Anthracene	88		J
206-44-0	Fluoranthene	1,400		
86-73-7	Fluorene	160	J	
193-39-5	Indeno(1,2,3-c,d)Pyrene	330		J
91-57-6	2-Methylnaphthalene	100	J	
91-20-3	Naphthalene	200	U	
85-01-8	Phenanthrene	1,700		

NEJ
8/19/10

SW8270C

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1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO

DUP-18

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81918 Mod Ref No : _____ SDG No : 10042015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042015-013

Sample wt/vol: 30.19 (g/mL):g Lab File ID: 10042128.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 04/20/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
129-00-0	Pyrene	2,500	

NW
8/19/10

(1) Cannot be separated from Diphenylamine

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-21

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81918 Mod. Ref No.: _____ SDG No : 10042015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042015-016

Sample wt/vol: 30.28 (g/mL):g Lab File ID: 10042126.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 36 Decanted: (Y/N) N Date Received: 04/20/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	260	U	
208-96-8	Acenaphthylene	260	U	
120-12-7	Anthracene	260	U	
56-55-3	Benzo(a)anthracene	260	U	
50-32-8	Benzo(a)pyrene	97		J
205-99-2	Benzo(b)fluoranthene	260	~~U~~	UJ
191-24-2	Benzo(g,h,i)perylene	260	~~U~~	UJ
207-08-9	Benzo(k)fluoranthene	260	~~U~~	UJ
218-01-9	Chrysene	260	U	
53-70-3	Dibenz(a,h)Anthracene	36	~~U~~	UJ
206-44-0	Fluoranthene	210	J	
86-73-7	Fluorene	260	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	260	~~U~~	UJ
91-57-6	2-Methylnaphthalene	260	U	
91-20-3	Naphthalene	260	U	
85-01-8	Phenanthrene	130	J	
129-00-0	Pyrene	240	J	

NW 8/19/10

(1) Cannot be separated from Diphenylamine

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-22

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81918 Mod Ref No.: _____ SDG No.: 10042015

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10042015-017

Sample wt/vol: 30.35 (g/mL):g Lab File ID: 10042125.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 04/20/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/20/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	240	
50-32-8	Benzo(a)pyrene	230	
205-99-2	Benzo(b)fluoranthene	360	
191-24-2	Benzo(g,h,i)perylene	100	
207-08-9	Benzo(k)fluoranthene	250	
218-01-9	Chrysene	290	
53-70-3	Dibenz(a,h)Anthracene	32	
206-44-0	Fluoranthene	490	
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	130	
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	160	J
129-00-0	Pyrene	520	

J

J

J

NW
8/14/10

SW8270C

ENVIRONMENTAL
Data Services, Inc.

TAL METALS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10042015

Client: ARGO Systems, Glen Burnie, MD Date: August 14, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1*	R-63	10042015-002	Soil
1MS*	R-63MS	10042015-002MS	Soil
1MSD*	R-63MSD	10042015-002MSD	Soil
2*	R-96	10042015-004	Soil
3*	NR-17	10042015-006	Soil
4	R-155	10042015-008	Soil
5	NR-44	10042015-009	Soil
6*	NR-56	10042015-012	Soil
7*	DUP-19	10042015-014	Soil
8	DUP-20	10042015-015	Soil

** - Arsenic only*

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level mg/kg	Qualifier	Affected Samples
EB-5	Arsenic	0.6	1.5	None	All > 5X
	Zinc	10	25	None	
EB-6	Arsenic	0.6	1.5	None	All > 5X
	Zinc	13	32.5	None	

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier	Affected Samples
1	Antimony	58%/60%/OK	L/UL	1
	Chromium	139%/OK/OK	K	
	Nickel	161%/64%/86	K/UL	
	Zinc	72%/22%/106	L/UL	

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate results are summarized below.

Compound	R-96 mg/kg	DUP-19 mg/kg	RPD	Qualifier
Arsenic	4.1	4.8	16%	None

Compound	NR-44 mg/kg	DUP-20 mg/kg	RPD	Qualifier
Arsenic	13	13	0%	None
Beryllium	1.3	2.7 U	NC	None
Chromium	7.1	6.9	3%	None
Copper	47	44	7%	None
Lead	520	660	24%	None
Mercury	0.11	0.14	24%	None
Nickel	8.5	8.6	1%	None
Thallium	0.22	0.5 U	NC	None
Zinc	190	220	15%	None

Compound Quantitation - All criteria were met.

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-63 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10042015

Matrix (soil/water): SOIL Lab Sample ID: 10042015-002

Level (low/med): LOW Date Received: 04/20/2010

% Solids: 80 Batch #: 81907

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	8.4			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
8/14/10

FORM IA - IN SW8270C

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-96

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10042015

Matrix (soil/water): SOIL Lab Sample ID: 10042015-004

Level (low/med): LOW Date Received: 04/20/2010

% Solids: 84 Batch #: 81907

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.1			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
8/14/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-17

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10042015

Matrix (soil/water): SOIL Lab Sample ID: 10042015-006

Level (low/med): LOW Date Received: 04/20/2010

% Solids: 82 Batch #: 81907

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.3			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
8/14/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
R-155

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10042015
Matrix (soil/water): SOIL Lab Sample ID: 10042015-008
Level (low/med): LOW Date Received: 04/20/2010
% Solids: 79 Batch #: 81907

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.2	~~U~~		MS	UL
7440-38-2	Arsenic	20			MS	
7440-41-7	Beryllium	2.2	U		MS	
7440-43-9	Cadmium	2.2	U		MS	
7440-47-3	Chromium	31			MS	K
7440-50-8	Copper	18			MS	
7439-92-1	Lead	39			MS	
7439-97-6	Mercury	0.07	J		MS	
7440-02-0	Nickel	14			MS	K
7782-49-2	Selenium	2.2	U		MS	
7440-22-4	Silver	2.2	U		MS	
7440-28-0	Thallium	0.4	U		MS	
7440-66-6	Zinc	50			MS	L

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

NW
8/19/10

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-44

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No.: 10042015

Matrix (soil/water): SOIL Lab Sample ID: 10042015-009

Level (low/med): LOW Date Received: 04/20/2010

% Solids: 81 Batch #: 81907

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.1	~~U~~		MS	UL
7440-38-2	Arsenic	13			MS	
7440-41-7	Beryllium	1.3	J		MS	
7440-43-9	Cadmium	2.1	U		MS	
7440-47-3	Chromium	7.1			MS	K
7440-50-8	Copper	47			MS	
7439-92-1	Lead	520			MS	
7439-97-6	Mercury	0.11			MS	
7440-02-0	Nickel	8.5			MS	K
7782-49-2	Selenium	2.1	U		MS	
7440-22-4	Silver	2.1	U		MS	
7440-28-0	Thallium	0.22	J		MS	
7440-66-6	Zinc	190			MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
8/19/10

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-56

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10042015

Matrix (soil/water): SOIL Lab Sample ID: 10042015-012

Level (low/med): LOW Date Received: 04/20/2010

% Solids: 85 Batch #: 81907

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.7			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/19/10

7

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-19

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10042015

Matrix (soil/water): SOIL Lab Sample ID: 10042015-014

Level (low/med): LOW Date Received: 04/20/2010

% Solids: 78 Batch #: 81907

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.8			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/14/10

8

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-20

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10042015

Matrix (soil/water): SOIL Lab Sample ID: 10042015-015

Level (low/med): LOW Date Received: 04/20/2010

% Solids: 81 Batch #: 81907

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.7	~~U~~		MS	UL
7440-38-2	Arsenic	13			MS	
7440-41-7	Beryllium	2.7	U		MS	
7440-43-9	Cadmium	2.7	U		MS	
7440-47-3	Chromium	6.9			MS	K
7440-50-8	Copper	44			MS	
7439-92-1	Lead	660			MS	
7439-97-6	Mercury	0.14			MS	
7440-02-0	Nickel	8.6			MS	K
7782-49-2	Selenium	2.7	U		MS	
7440-22-4	Silver	2.7	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	220			MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

LW
8/14/10

ENVIRONMENTAL
Data Services, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10041906

Client: ARGO Systems, Glen Burnie, MD Date: August 14, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	R-78	10041906-002	Soil
2	R-95	10041906-003	Soil
3	R-115	10041906-004	Soil
4	R-122	10041906-005	Soil
5	R-132	10041906-006	Soil
6	R-143	10041906-008	Soil
7	R-172	10041906-009	Soil
8	NR-74	10041906-010	Soil
8MS	NR-74MS	10041906-010MS	Soil
8MSD	NR-74MSD	10041906-010MSD	Soil
9	R-80	10041906-012	Soil
10	R-94	10041906-013	Soil
11	R-110	10041906-015	Soil
12	R-136	10041906-016	Soil
13	R-144	10041906-017	Soil
14	R-147	10041906-018	Soil
15	R-149	10041906-019	Soil
16	NR-49	10041906-020	Soil
17	DUP-16	10041906-022	Soil
18	DUP-17	10041906-023	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - All samples exhibited acceptable surrogate recoveries except the following.

Sample ID	Surrogate	%R	Qualifier
17	S5=Terphenyl-d14	178%	None for only 1 out
17DL	S1=2-Fluorobiphenyl	113%	None for only 1 out
18	S1=2-Fluorobiphenyl	119%	None for only 1 out

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier
8	Many compounds	High	Not valid due to high concentrations

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria except the following.

Sample ID	Internal Standard	Area Count	Qualifier
2	IS6= Perylene-d12	Low	J/UJ- associated compounds
7	IS6= Perylene-d12	Low	J/UJ- associated compounds
9	IS6= Perylene-d12	Low	J/UJ- associated compounds
10	IS6= Perylene-d12	Low	J/UJ- associated compounds
11	IS6= Perylene-d12	Low	J/UJ- associated compounds
13	IS6= Perylene-d12	Low	J/UJ- associated compounds
16	IS6= Perylene-d12	Low	J/UJ- associated compounds
17	IS5=Chrysene-d12	Low	J/UJ- associated compounds
	IS6= Perylene-d12	Low	J/UJ- associated compounds
18	IS6= Perylene-d12	Low	J/UJ- associated compounds

Method Blank - The method blanks were free of contamination.

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level mg/kg	Qualifier	Affected Samples
EB-5	None-ND	-	-	-	-
EB-6	None-ND	-	-	-	-

Field Duplicates - Field duplicate samples were not analyzed.

Compound	NR-74 ug/kg	DUP-16 ug/kg	RPD	Qualifier
Acenaphthene	8800	2300	117%	J
Anthracene	10000	7500	29%	None
Benzo(a)anthracene	28000	22000	24%	None
Benzo(a)pyrene	27000	20000	30%	None
Benzo(b)fluoranthene	27000	22000	20%	None
Benzo(g,h,i)perylene	11000	7100	43%	None
Benzo(k)fluoranthene	22000	15000	38%	None
Chrysene	29000	22000	27%	None
Dibenz(a,h)anthracene	3500	3200	9%	None
Fluoranthene	62000	44000	34%	None
Fluorene	8800	2500	112%	J
Indeno(1,2,3-cd)pyrene	13000	8700	40%	None
2-Methylnaphthalene	990	360	93%	None
Naphthalene	1600	430	115%	J
Phenanthrene	43000	29000	39%	None
Pyrene	62000	40000	43%	None

Compound	R-110 ug/kg	DUP-17 ug/kg	RPD	Qualifier
Acenaphthene	1800	1700	6%	None
Acenaphthylene	120	130	8%	None
Anthracene	2000	2200	10%	None
Benzo(a)anthracene	8600	9900	14%	None
Benzo(a)pyrene	8700	9900	13%	None
Benzo(b)fluoranthene	8800	11000	22%	None
Benzo(g,h,i)perylene	3100	4500	37%	None
Benzo(k)fluoranthene	7300	7700	5%	None
Chrysene	8800	10000	13%	None
Dibenz(a,h)anthracene	500	2000	120%	None- already qualified
Fluoranthene	18000	23000	24%	None
Fluorene	1300	1300	0%	None
Indeno(1,2,3-cd)pyrene	4800	5500	14%	None
2-Methylnaphthalene	250	220	13%	None
Naphthalene	630	490	25%	None
Phenanthrene	11000	13000	17%	None
Pyrene	15000	18000	18%	None

Compound Quantitation - Several samples were analyzed at 10X, 20X, and 50X dilutions due to high concentrations of target compounds.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-78

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81877 Mod. Ref No.: _____ SDG No.: 10041906

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041906-002

Sample wt/vol: 30.21 (g/mL):g Lab File ID: 10042029.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 04/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	170	J
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	400	
56-55-3	Benzo(a)anthracene	730	
50-32-8	Benzo(a)pyrene	570	
205-99-2	Benzo(b)fluoranthene	590	
191-24-2	Benzo(g,h,i)perylene	190	J
207-08-9	Benzo(k)fluoranthene	430	
218-01-9	Chrysene	660	
53-70-3	Dibenz(a,h)Anthracene	38	
206-44-0	Fluoranthene	1,800	
86-73-7	Fluorene	150	J
193-39-5	Indeno(1,2,3-c,d)Pyrene	260	
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	1,300	
129-00-0	Pyrene	1,500	

LW
8/14/10

2

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

R-95

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81877 Mod Ref No.: _____ SDG No.: 10041906

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041906-003

Sample wt/vol: 30.05 (g/mL):g Lab File ID: 10042036.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 04/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
208-96-8	Acenaphthylene	230	
53-70-3	Dibenz(a,h)Anthracene	1,700	J
86-73-7	Fluorene	3,200	
91-57-6	2-Methylnaphthalene	1,300	
91-20-3	Naphthalene	2,000	

MW
8/14/10

(1) Cannot be separated from Diphenylamine

SW8270C

2

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-95

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81877 Mod Ref No.: _____ SDG No.: 10041906

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041906-003

Sample wt/vol: 30.05 (g/mL):g Lab File ID: 10042036.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 04/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	5,400	
120-12-7	Anthracene	7,400	
56-55-3	Benzo(a)anthracene	19,000	
50-32-8	Benzo(a)pyrene	17,000	
205-99-2	Benzo(b)fluoranthene	19,000	
191-24-2	Benzo(g,h,i)perylene	7,000	
207-08-9	Benzo(k)fluoranthene	14,000	
218-01-9	Chrysene	19,000	
206-44-0	Fluoranthene	47,000	
193-39-5	Indeno(1,2,3-c,d)Pyrene	8,900	
85-01-8	Phenanthrene	33,000	
129-00-0	Pyrene	37,000	

lw
8/19/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-115

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81877 Mod. Ref No.: _____ SDG No.: 10041906

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041906-004

Sample wt/vol: 30.26 (g/mL):g Lab File ID: 10042031.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 30 Decanted: (Y/N) N Date Received: 04/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	400	
208-96-8	Acenaphthylene	240	U
120-12-7	Anthracene	420	
56-55-3	Benzo(a)anthracene	1,200	
50-32-8	Benzo(a)pyrene	1,000	
205-99-2	Benzo(b)fluoranthene	1,200	
191-24-2	Benzo(g,h,i)perylene	300	
207-08-9	Benzo(k)fluoranthene	810	
218-01-9	Chrysene	1,200	
53-70-3	Dibenz(a,h)Anthracene	68	
206-44-0	Fluoranthene	2,800	
86-73-7	Fluorene	270	
193-39-5	Indeno(1,2,3-c,d)Pyrene	450	
91-57-6	2-Methylnaphthalene	240	U
91-20-3	Naphthalene	240	U
85-01-8	Phenanthrene	2,200	
129-00-0	Pyrene	2,300	

NW
8/14/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-122

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81877 Mod Ref No.: _____ SDG No : 10041906

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041906-005

Sample wt/vol: 30.27 (g/mL):g Lab File ID: 10042020.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 04/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

NW
8/14/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-132

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81877 Mod. Ref No.: _____ SDG No : 10041906

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041906-006

Sample wt/vol: 30.39 (g/mL):g Lab File ID: 10042022.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23 Decanted: (Y/N) N Date Received: 04/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	67	
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	30	U
206-44-0	Fluoranthene	150	J
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	130	J

MW
8/14/10

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-143

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81877 Mod. Ref No.: _____ SDG No.: 10041906

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041906-008

Sample wt/vol: 30.28 (g/mL):g Lab File ID: 10042035.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 04/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	220	U
208-96-8	Acenaphthylene	220	U
120-12-7	Anthracene	220	U
56-55-3	Benzo(a)anthracene	300	
50-32-8	Benzo(a)pyrene	330	
205-99-2	Benzo(b)fluoranthene	340	
191-24-2	Benzo(g,h,i)perylene	270	
207-08-9	Benzo(k)fluoranthene	230	
218-01-9	Chrysene	310	
53-70-3	Dibenz(a,h)Anthracene	50	
206-44-0	Fluoranthene	640	
86-73-7	Fluorene	220	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	330	
91-57-6	2-Methylnaphthalene	220	U
91-20-3	Naphthalene	220	U
85-01-8	Phenanthrene	500	
129-00-0	Pyrene	790	

KW 8/14/10

(1) Cannot be separated from Diphenylamine

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-172

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81877 Mod. Ref No.: _____ SDG No.: 10041906

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041906-009

Sample wt/vol: 30.06 (g/mL):g Lab File ID: 10042034.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 04/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	210	U	
208-96-8	Acenaphthylene	210	U	
120-12-7	Anthracene	140	J	
56-55-3	Benzo(a)anthracene	610		
50-32-8	Benzo(a)pyrene	920		J
205-99-2	Benzo(b)fluoranthene	910		J
191-24-2	Benzo(g,h,i)perylene	430		J
207-08-9	Benzo(k)fluoranthene	610		J
218-01-9	Chrysene	630		
53-70-3	Dibenz(a,h)Anthracene	84		J
206-44-0	Fluoranthene	1,100		
86-73-7	Fluorene	210	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	580		J
91-57-6	2-Methylnaphthalene	210	U	
91-20-3	Naphthalene	210	U	
85-01-8	Phenanthrene	690		
129-00-0	Pyrene	1,400		

NW
8/14/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-74 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81877 Mod Ref No.: _____ SDG No : 10041906

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041906-010

Sample wt/vol: 30.67 (g/mL):g Lab File ID: 10042039.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 04/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
208-96-8	Acenaphthylene	200	U
91-57-6	2-Methylnaphthalene	990	
91-20-3	Naphthalene	1,600	J

NW
8/14/10

(1) Cannot be separated from Diphenylamine

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-74 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81877 Mod Ref No.: _____ SDG No.: 10041906

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041906-010

Sample wt/vol: 30.67 (g/mL):g Lab File ID: 10042039.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 04/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 50.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	8,800	J
120-12-7	Anthracene	10,000	
56-55-3	Benzo(a)anthracene	28,000	
50-32-8	Benzo(a)pyrene	27,000	
205-99-2	Benzo(b)fluoranthene	27,000	
191-24-2	Benzo(g,h,i)perylene	11,000	
207-08-9	Benzo(k)fluoranthene	22,000	
218-01-9	Chrysene	29,000	
53-70-3	Dibenz(a,h)Anthracene	3,500	
206-44-0	Fluoranthene	62,000	
86-73-7	Fluorene	8,800	J
193-39-5	Indeno(1,2,3-c,d)Pyrene	13,000	
85-01-8	Phenanthrene	43,000	
129-00-0	Pyrene	62,000	

NW 8/14/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-80

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81877 Mod Ref No : _____ SDG No.: 10041906

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041906-012

Sample wt/vol: 30.05 (g/mL): g Lab File ID: 10042045.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 04/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	2,000	U	
208-96-8	Acenaphthylene	2,000	U	
120-12-7	Anthracene	2,000	U	
56-55-3	Benzo(a)anthracene	2,000	U	
50-32-8	Benzo(a)pyrene	10,000		J
205-99-2	Benzo(b)fluoranthene	7,800		J
191-24-2	Benzo(g,h,i)perylene	6,700		J
207-08-9	Benzo(k)fluoranthene	6,700		J
218-01-9	Chrysene	2,000	U	
53-70-3	Dibenz(a,h)Anthracene	3,100		J
206-44-0	Fluoranthene	2,000	U	
86-73-7	Fluorene	2,000	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	7,500		J
91-57-6	2-Methylnaphthalene	2,000	U	
91-20-3	Naphthalene	2,000	U	
85-01-8	Phenanthrene	2,000	U	
129-00-0	Pyrene	2,000	U	

NW
8/14/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-94

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81877 Mod. Ref No.: _____ SDG No : 10041906

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041906-013

Sample wt/vol: 30.06 (g/mL): g Lab File ID: 10042038.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 04/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	2,600	
208-96-8	Acenaphthylene	200	U
53-70-3	Dibenz(a,h)Anthracene	1,100	J
86-73-7	Fluorene	2,000	
91-57-6	2-Methylnaphthalene	800	
91-20-3	Naphthalene	1,200	

NW
8/14/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-94

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81877 Mod. Ref No.: _____ SDG No.: 10041906

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041906-013

Sample wt/vol: 30.06 (g/mL):g Lab File ID: 10042038.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 04/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
120-12-7	Anthracene	4,500	
56-55-3	Benzo(a)anthracene	11,000	
50-32-8	Benzo(a)pyrene	9,800	
205-99-2	Benzo(b)fluoranthene	11,000	
191-24-2	Benzo(g,h,i)perylene	3,600	
207-08-9	Benzo(k)fluoranthene	7,600	
218-01-9	Chrysene	11,000	
206-44-0	Fluoranthene	23,000	
193-39-5	Indeno(1,2,3-c,d)Pyrene	4,500	
85-01-8	Phenanthrene	18,000	
129-00-0	Pyrene	20,000	

lw
8/14/10

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-110

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81877 Mod Ref No.: _____ SDG No.: 10041906

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041906-015

Sample wt/vol: 30.34 (g/mL):g Lab File ID: 10042033.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 04/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	1,800	
208-96-8	Acenaphthylene	120	J
120-12-7	Anthracene	2,000	
191-24-2	Benzo(g,h,i)perylene	3,100	
53-70-3	Dibenz(a,h)Anthracene	500	
86-73-7	Fluorene	1,300	
91-57-6	2-Methylnaphthalene	250	
91-20-3	Naphthalene	630	

JJ

lwl
8/14/10

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1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

R-110

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81877 Mod. Ref No.: _____ SDG No.: 10041906

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041906-015

Sample wt/vol: 30.34 (g/mL):g Lab File ID: 10042033.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 04/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
56-55-3	Benzo(a)anthracene	8,600	
50-32-8	Benzo(a)pyrene	8,700	
205-99-2	Benzo(b)fluoranthene	8,800	
207-08-9	Benzo(k)fluoranthene	7,300	
218-01-9	Chrysene	8,800	
206-44-0	Fluoranthene	18,000	
193-39-5	Indeno(1,2,3-c,d)Pyrene	4,800	
85-01-8	Phenanthrene	11,000	
129-00-0	Pyrene	15,000	

8/14/10

(1) Cannot be separated from Diphenylamine

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-136

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81877 Mod. Ref No.: _____ SDG No.: 10041906

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041906-016

Sample wt/vol: 30.26 (g/mL):g Lab File ID: 10042032.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 04/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

MW 8/14/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-144

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81877 Mod. Ref No.: _____ SDG No : 10041906

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041906-017

Sample wt/vol: 30.06 (g/mL):g Lab File ID: 10042037.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 04/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	200	U	
208-96-8	Acenaphthylene	200	U	
120-12-7	Anthracene	200	U	
56-55-3	Benzo(a)anthracene	200		
50-32-8	Benzo(a)pyrene	1,300		J
205-99-2	Benzo(b)fluoranthene	1,000		↓
191-24-2	Benzo(g,h,i)perylene	750		
207-08-9	Benzo(k)fluoranthene	820		
218-01-9	Chrysene	190	J	
53-70-3	Dibenz(a,h)Anthracene	130		J
206-44-0	Fluoranthene	380		
86-73-7	Fluorene	200	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	950		J
91-57-6	2-Methylnaphthalene	200	U	
91-20-3	Naphthalene	200	U	
85-01-8	Phenanthrene	260		
129-00-0	Pyrene	500		

lw
8/14/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-147

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81877 Mod. Ref No.: _____ SDG No.: 10041906

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041906-018

Sample wt/vol: 30.05 (g/mL):g Lab File ID: 10042030.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 33 Decanted: (Y/N) N Date Received: 04/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	250	U
208-96-8	Acenaphthylene	250	U
120-12-7	Anthracene	250	U
56-55-3	Benzo(a)anthracene	250	U
50-32-8	Benzo(a)pyrene	72	
205-99-2	Benzo(b)fluoranthene	250	U
191-24-2	Benzo(g,h,i)perylene	250	U
207-08-9	Benzo(k)fluoranthene	250	U
218-01-9	Chrysene	250	U
53-70-3	Dibenz(a,h)Anthracene	35	U
206-44-0	Fluoranthene	170	J
86-73-7	Fluorene	250	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	250	U
91-57-6	2-Methylnaphthalene	250	U
91-20-3	Naphthalene	250	U
85-01-8	Phenanthrene	250	U
129-00-0	Pyrene	180	J

aw 8/14/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-149

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81877 Mod. Ref No.: _____ SDG No : 10041906

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041906-019

Sample wt/vol: 30.4 (g/mL):g Lab File ID: 10042021.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 04/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

NW
8/14/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
NR-49

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81877 Mod. Ref No.: _____ SDG No.: 10041906

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041906-020

Sample wt/vol: 30.2 (g/mL):g Lab File ID: 10042044.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23 Decanted: (Y/N) N Date Received: 04/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	370	
208-96-8	Acenaphthylene	220	U
120-12-7	Anthracene	600	
56-55-3	Benzo(a)anthracene	1,200	
50-32-8	Benzo(a)pyrene	3,100	J
205-99-2	Benzo(b)fluoranthene	3,000	
191-24-2	Benzo(g,h,i)perylene	1,200	
207-08-9	Benzo(k)fluoranthene	2,300	
218-01-9	Chrysene	1,200	
53-70-3	Dibenz(a,h)Anthracene	630	J
206-44-0	Fluoranthene	2,100	
86-73-7	Fluorene	340	
193-39-5	Indeno(1,2,3-c,d)Pyrene	1,500	J
91-57-6	2-Methylnaphthalene	130	J
91-20-3	Naphthalene	240	
85-01-8	Phenanthrene	2,400	
129-00-0	Pyrene	3,200	

NW
8/14/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
DUP-16

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81877 Mod. Ref No : _____ SDG No : 10041906

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041906-022

Sample wt/vol: 30.53 (g/mL): g Lab File ID: 10042043.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 04/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	2,300		J
208-96-8	Acenaphthylene	200	U	
53-70-3	Dibenz(a,h)Anthracene	3,200		J
86-73-7	Fluorene	2,500		J
91-57-6	2-Methylnaphthalene	360		
91-20-3	Naphthalene	430		J

pcw
8/19/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-16

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81877 Mod. Ref No.: _____ SDG No.: 10041906

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041906-022

Sample wt/vol: 30.53 (g/mL):g Lab File ID: 10042043.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 04/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
120-12-7	Anthracene	7,500	
56-55-3	Benzo(a)anthracene	22,000	
50-32-8	Benzo(a)pyrene	20,000	
205-99-2	Benzo(b)fluoranthene	22,000	
191-24-2	Benzo(g,h,i)perylene	7,100	
207-08-9	Benzo(k)fluoranthene	15,000	
218-01-9	Chrysene	22,000	
206-44-0	Fluoranthene	44,000	
193-39-5	Indeno(1,2,3-c,d)Pyrene	8,700	
85-01-8	Phenanthrene	29,000	
129-00-0	Pyrene	40,000	

NW
8/19/10

(1) Cannot be separated from Diphenylamine

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-17

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81877 Mod Ref No.: _____ SDG No.: 10041906

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041906-023

Sample wt/vol: 30.63 (g/mL):g Lab File ID: 10042042.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 04/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	1,700	
208-96-8	Acenaphthylene	130	J
120-12-7	Anthracene	2,200	
53-70-3	Dibenz(a,h)Anthracene	2,000	J
86-73-7	Fluorene	1,300	
91-57-6	2-Methylnaphthalene	220	
91-20-3	Naphthalene	490	

NW
8/14/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-17

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81877 Mod. Ref No.: _____ SDG No : 10041906

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041906-023

Sample wt/vol: 30.63 (g/mL):g Lab File ID: 10042042.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 04/19/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/21/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
56-55-3	Benzo(a)anthracene	9,900	
50-32-8	Benzo(a)pyrene	9,900	
205-99-2	Benzo(b)fluoranthene	11,000	
191-24-2	Benzo(g,h,i)perylene	4,500	
207-08-9	Benzo(k)fluoranthene	7,700	
218-01-9	Chrysene	10,000	
206-44-0	Fluoranthene	23,000	
193-39-5	Indeno(1,2,3-c,d)Pyrene	5,500	
85-01-8	Phenanthrene	13,000	
129-00-0	Pyrene	18,000	

MW
8/14/10

ENVIRONMENTAL
Data Services, Inc.

TAL METALS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10041906

Client: ARGO Systems, Glen Burnie, MD Date: August 14, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1*	R-75	10041906-001	Soil
2*	R-135	10041906-007	Soil
3*	R-172	10041906-009	Soil
4	NR-74	10041906-010	Soil
4MS	NR-74MS	10041906-010MS	Soil
4MSD	NR-74MSD	10041906-010MSD	Soil
5	NR-84	10041906-011	Soil
6	R-80	10041906-012	Soil
7*	R-94	10041906-013	Soil
8	R-109	10041906-014	Soil
9*	R-136	10041906-016	Soil
10*	NR-50	10041906-021	Soil
11	DUP-16	10041906-022	Soil

** - Arsenic only*

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks exhibited the following contamination.

Compound	Conc. mg/kg	Action Level mg/kg	Qualifier	Affected Samples
Zinc (PB 81869)	6.130	30.65	None	All > 5X

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level mg/kg	Qualifier	Affected Samples
EB-5	Arsenic	0.6	1.5	None	All > 5X
	Zinc	10	25	None	
EB-6	Arsenic	0.6	1.5	None	All > 5X
	Zinc	13	32.5	None	

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier	Affected Samples
4	Antimony	OK/71%/OK	L/UL	All samples
	Arsenic	OK/74%/OK	L/UL	
	Chromium	OK/73%/31	L/UL	
	Nickel	OK/OK/42	J	
	Selenium	OK/31%/96	L/UL	

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate results are summarized below.

Compound	NR-74 mg/kg	Dup-16 mg/kg	RPD	Qualifier
Antimony	2.4	2.8 U	NC	None
Arsenic	5.0	3.5	35%	None
Chromium	26	21	21%	None
Copper	3500	1800	64%	None
Lead	1200	230	136%	J
Mercury	0.19	0.12	45%	None
Nickel	21	12	55%	None
Thallium	0.38	0.6 U	NC	None
Zinc	270	140	63%	None

Compound Quantitation - All criteria were met.

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-75

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS _____ SDG 10041906

Matrix (soil/water): SOIL Lab Sample ID: 10041906-001

Level (low/med): LOW Date Received: 04/19/2010

% Solids: 81 Batch #: 81869

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.9			MS

L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
8/14/10

2

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-135

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS _____ SDG 10041906

Matrix (soil/water): SOIL Lab Sample ID: 10041906-007

Level (low/med): LOW Date Received: 04/19/2010

% Solids: 89 Batch #: 81869

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.6			MS L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/14/10

3

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-172

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS _____ SDG 10041906

Matrix (soil/water): SOIL Lab Sample ID: 10041906-009

Level (low/med): LOW Date Received: 04/19/2010

% Solids: 80 Batch #: 81869

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.4			MS

L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/19/10

4

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
NR-74 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS _____ SDG 10041906

Matrix (soil/water): SOIL Lab Sample ID: 10041906-010

Level (low/med): LOW Date Received: 04/19/2010

% Solids: 81 Batch #: 81869

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.4	~~J~~	~~N~~	MS	L
7440-38-2	Arsenic	5.0		~~N~~	MS	L
7440-41-7	Beryllium	2.7	U		MS	
7440-43-9	Cadmium	2.7	U		MS	
7440-47-3	Chromium	26		~~N~~	MS	L
7440-50-8	Copper	3500		~~N~~	MS	
7439-92-1	Lead	1200		~~N~~	MS	J
7439-97-6	Mercury	0.19			MS	
7440-02-0	Nickel	21			MS	J
7782-49-2	Selenium	2.7	~~U~~	~~N~~	MS	UL
7440-22-4	Silver	2.7	U		MS	
7440-28-0	Thallium	0.38	J		MS	
7440-66-6	Zinc	270		~~N~~	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
8/14/10

5

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-84

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS _____ SDG 10041906

Matrix (soil/water): SOIL Lab Sample ID: 10041906-011

Level (low/med): LOW Date Received: 04/19/2010

% Solids: 91.3 Batch #: 81869

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	1.9	~~U~~		MS	UL
7440-38-2	Arsenic	8.3			MS	L
7440-41-7	Beryllium	1.9	U		MS	
7440-43-9	Cadmium	1.9	U		MS	
7440-47-3	Chromium	20			MS	L
7440-50-8	Copper	26			MS	
7439-92-1	Lead	280			MS	
7439-97-6	Mercury	0.08	U		MS	
7440-02-0	Nickel	7.8			MS	J
7782-49-2	Selenium	1.9	~~U~~		MS	UL
7440-22-4	Silver	1.9	U		MS	
7440-28-0	Thallium	0.4	U		MS	
7440-66-6	Zinc	46		N	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NEJ
8/24/10

6

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-80

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS _____ SDG 10041906

Matrix (soil/water): SOIL Lab Sample ID: 10041906-012

Level (low/med): LOW Date Received: 04/19/2010

% Solids: 82 Batch #: 81869

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.7	~~U~~		MS	UL
7440-38-2	Arsenic	4.4			MS	L
7440-41-7	Beryllium	2.7	U		MS	
7440-43-9	Cadmium	2.7	U		MS	
7440-47-3	Chromium	62			MS	L
7440-50-8	Copper	25			MS	
7439-92-1	Lead	78			MS	
7439-97-6	Mercury	0.06	J		MS	
7440-02-0	Nickel	280			MS	J
7782-49-2	Selenium	2.7	~~U~~		MS	UL
7440-22-4	Silver	2.7	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	70		~~N~~	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

hej
8/19/10

FORM IA - IN SW8270C

7

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-94

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS _____ SDG 10041906

Matrix (soil/water): SOIL Lab Sample ID: 10041906-013

Level (low/med): LOW Date Received: 04/19/2010

% Solids: 84 Batch #: 81869

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	6.1			MS

L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/14/10

FORM IA - IN SW8270C

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
R-109

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS _____ SDG 10041906

Matrix (soil/water): SOIL Lab Sample ID: 10041906-014

Level (low/med): LOW Date Received: 04/19/2010

% Solids: 78 Batch #: 81869

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	1.5	~~J~~		MS	L
7440-38-2	Arsenic	9.1			MS	L
7440-41-7	Beryllium	3.0	U		MS	
7440-43-9	Cadmium	1.8	J		MS	
7440-47-3	Chromium	25			MS	L
7440-50-8	Copper	29			MS	
7439-92-1	Lead	1700			MS	
7439-97-6	Mercury	0.42			MS	
7440-02-0	Nickel	16			MS	J
7782-49-2	Selenium	3.0	~~U~~		MS	UL
7440-22-4	Silver	3.0	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	920		~~N~~	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/19/10

9

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-136

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS _____ SDG 10041906

Matrix (soil/water): SOIL Lab Sample ID: 10041906-016

Level (low/med): LOW Date Received: 04/19/2010

% Solids: 82 Batch #: 81869

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.8			MS L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

nw
8/19/10

FORM IA - IN SW8270C

10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-50

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS _____ SDG 10041906

Matrix (soil/water): SOIL Lab Sample ID: 10041906-021

Level (low/med): LOW Date Received: 04/19/2010

% Solids: 80 Batch #: 81869

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.8			MS

L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/14/10

11

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-16

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS _____ SDG 10041906

Matrix (soil/water): SOIL Lab Sample ID: 10041906-022

Level (low/med): LOW Date Received: 04/19/2010

% Solids: 80 Batch #: 81869

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.8	U		MS	UL
7440-38-2	Arsenic	3.5			MS	L
7440-41-7	Beryllium	2.8	U		MS	
7440-43-9	Cadmium	2.8	U		MS	
7440-47-3	Chromium	21			MS	L
7440-50-8	Copper	1800			MS	
7439-92-1	Lead	230			MS	J
7439-97-6	Mercury	0.12			MS	
7440-02-0	Nickel	12			MS	J
7782-49-2	Selenium	2.8	U		MS	UL
7440-22-4	Silver	2.8	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	140		N	MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/14/10

ENVIRONMENTAL
Data Services, Inc.

TAL METALS (MANGANESE, VANADIUM ONLY)
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10041904

Client: ARGO Systems, Glen Burnie, MD Date: August 13, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	R-50	10041904-001	Soil
1MS	R-50MS	10041904-001MS	Soil
1MSD	R-50MSD	10041904-001MSD	Soil

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 180 days for all metals.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values.

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate samples were not analyzed.

Compound Quantitation - All criteria were met.

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-50 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1436209

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10041904

Matrix (soil/water): SOIL Lab Sample ID: 10041904-001

Level (low/med): LOW Date Received: 04/13/2010

% Solids: 72 Batch #: 81940

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7439-96-5	Manganese	950			MS
7440-62-2	Vanadium	38			MS

Color Before BLACK Clarity Before _____ Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments: _____

mw
8/13/10

FORM IA - IN SW6020

ENVIRONMENTAL
Data Services, Inc.

HEXAVALENT CHROMIUM

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10041904

Client: ARGO Systems, Glen Burnie, MD Date: August 16, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	R-50	10041904-001	Soil
1MS	R-50MS	10041904-001MS	Soil
1MSD	R-50MSD	10041904-001MSD	Soil

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 30 days for hexavalent chromium.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Matrix Spike/Duplicate - The matrix spike/duplicate sample exhibited acceptable %R and RPD values.

LCS - The LCS samples exhibited acceptable %R values.

Field Duplicates - Field duplicate samples were not analyzed.

Compound Quantitation - No discrepancies were identified.

OFFICES:
6630 BALTIMORE NATIONAL PIKE
ROUTE 40 WEST
BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 10041904
ARGO Systems, Glen Burnie, MD
April 26, 2010

Project Name: NTCB
Project Location: Port Deposit
Project ID: 1436209

Sample ID: R-50 MS/MSD **Date/Time Sampled: 04/07/2010 08:10** **PSS Sample ID: 10041904-001**
Matrix: SOIL **Date/Time Received: 04/13/2010 11:05** **% Solids: 72**

VCP Metals — Analytical Method: SW846 6020A — Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Manganese	**950**	mg/kg	31		10	16	04/20/10	04/23/10 14:47	1033
Vanadium	**38**	mg/kg	3 1		1	1 6	04/20/10	04/22/10 16:10	1033

Chromium, Hexavalent — Analytical Method: SW846 7196A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chromium, Hexavalent	ND	mg/kg	14		5	14	04/22/10	04/22/10 00:00	1022

RW 8/16/10

ENVIRONMENTAL
Data Services, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10041620

Client: ARGO Systems, Glen Burnie, MD Date: August 13, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	EB-4	10041620-001	Water
2	EB-3	10041620-002	Water

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 7 days for water samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level ug/L	Qualifier	Affected Samples
EB-3	None-ND	-	-	-	-
EB-4	None-ND	-	-	-	-

Field Duplicates - Field duplicate samples were not analyzed.

Compound Quantitation - No discrepancies were identified.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

EB-4

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81860 Mod. Ref No.: _____ SDG No.: 10041620

Matrix : (SOIL/SED/WATER) WATER Lab Sample Id: 10041620-001

Sample wt/vol: 1000 (g/mL): ml Lab File ID: 10041921.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) CLEAR Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
83-32-9	Acenaphthene	5	U
208-96-8	Acenaphthylene	5	U
120-12-7	Anthracene	5	U
56-55-3	Benzo(a)anthracene	0.5	U
50-32-8	Benzo(a)pyrene	0.5	U
205-99-2	Benzo(b)fluoranthene	0.5	U
191-24-2	Benzo(g,h,i)perylene	5	U
207-08-9	Benzo(k)fluoranthene	0.5	U
218-01-9	Chrysene	2	U
53-70-3	Dibenz(a,h)Anthracene	0.5	U
206-44-0	Fluoranthene	5	U
86-73-7	Fluorene	5	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.5	U
91-57-6	2-Methylnaphthalene	2	U
91-20-3	Naphthalene	0.5	U
85-01-8	Phenanthrene	5	U
129-00-0	Pyrene	5	U

LW
8/13/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
EB-3

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81860 Mod. Ref No.: _____ SDG No.: 10041620

Matrix : (SOIL/SED/WATER) WATER Lab Sample Id: 10041620-002

Sample wt/vol: 1000 (g/mL): ml Lab File ID: 10041922.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) CLEAR Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/19/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
83-32-9	Acenaphthene	5	U
208-96-8	Acenaphthylene	5	U
120-12-7	Anthracene	5	U
56-55-3	Benzo(a)anthracene	0.5	U
50-32-8	Benzo(a)pyrene	0.5	U
205-99-2	Benzo(b)fluoranthene	0.5	U
191-24-2	Benzo(g,h,i)perylene	5	U
207-08-9	Benzo(k)fluoranthene	0.5	U
218-01-9	Chrysene	2	U
53-70-3	Dibenz(a,h)Anthracene	0.5	U
206-44-0	Fluoranthene	5	U
86-73-7	Fluorene	5	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.5	U
91-57-6	2-Methylnaphthalene	2	U
91-20-3	Naphthalene	0.5	U
85-01-8	Phenanthrene	5	U
129-00-0	Pyrene	5	U

NW
8/13/10

(1) Cannot be separated from Diphenylamine

SW8270C

ENVIRONMENTAL
Data Services, Inc.

TAL METALS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10041620

Client: ARGO Systems, Glen Burnie, MD Date: August 13, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	EB-4	10041620-001	Water
2	EB-3	10041620-002	Water

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable except the following.

Compound	%R	Qualifier	Affected Samples
(CCV) Mercury	86%	J/UJ	All samples

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level mg/kg	Qualifier	Affected Samples
EB-3	Arsenic	0.5	1.25	None	To be applied to other packages
	Zinc	10	25.0	None	
EB-4	Arsenic	0.5	1.25	None	
	Chromium	0.6	1.50	None	
	Copper	0.6	1.50	None	

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier	Affected Samples
Reference	Selenium	71%/70%/OK	None	See LCS

LCS - The LCS samples exhibited acceptable %R values except the following.

LCS ID	Compound	%R	Qualifier	Affected Samples
LCS 81946	Mercury	61%	None	See Calibration
	Selenium	71%	J/UJ	All samples

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate samples were not analyzed.

Compound Quantitation - All criteria were met.

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10041620

Matrix (soil/water): WATER Lab Sample ID: 10041620-001

Level (low/med): LOW Date Received: 04/16/2010

% Solids: _____ Batch #: 81946

Concentration Units (ug/ L or mg/kg dry weight) UG/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	1.0	U		MS	
7440-38-2	Arsenic	0.5	J		MS	
7440-41-7	Beryllium	1.0	U		MS	
7440-43-9	Cadmium	1.0	U		MS	
7440-47-3	Chromium	0.6	J		MS	
7440-50-8	Copper	0.6	J		MS	
7439-92-1	Lead	1.0	U		MS	
7439-97-6	Mercury	0.20	~~U~~		MS	UJ
7440-02-0	Nickel	1.0	U		MS	
7782-49-2	Selenium	1.0	~~U~~	~~N~~	MS	UJ
7440-22-4	Silver	1.0	U		MS	
7440-28-0	Thallium	1.0	U		MS	
7440-66-6	Zinc	20	U		MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

RW
8/13/10

FORM IA - IN SW6020

2

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB-3

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10041620

Matrix (soil/water): WATER Lab Sample ID: 10041620-002

Level (low/med): LOW Date Received: 04/16/2010

% Solids: _____ Batch #: 81946

Concentration Units (ug/ L or mg/kg dry weight) UG/L

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	1.0	U		MS	
7440-38-2	Arsenic	0.5	J		MS	
7440-41-7	Beryllium	1.0	U		MS	
7440-43-9	Cadmium	1.0	U		MS	
7440-47-3	Chromium	1.0	U		MS	
7440-50-8	Copper	1.0	U		MS	
7439-92-1	Lead	1.0	U		MS	
7439-97-6	Mercury	0.20	~~U~~		MS	UJ
7440-02-0	Nickel	1.0	U		MS	
7782-49-2	Selenium	1.0	~~U~~	~~N~~	MS	UJ
7440-22-4	Silver	1.0	U		MS	
7440-28-0	Thallium	1.0	U		MS	
7440-66-6	Zinc	10	J		MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/13/10

FORM IA - IN SW6020

ENVIRONMENTAL
Data Services, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10041617

Client: ARGO Systems, Glen Burnie, MD Date: August 13, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	R-6	10041617-001	Soil
2	R-29	10041617-002	Soil
3	R-106	10041617-003	Soil
4	R-128	10041617-004	Soil
5	R-150	10041617-005	Soil
6	R-156	10041617-006	Soil
7	R-164	10041617-007	Soil
8	R-209	10041617-011	Soil
9	NR-8	10041617-013	Soil
9MS	NR-8MS	10041617-013MS	Soil
9MSD	NR-8MSD	10041617-013MSD	Soil
10	NR-51	10041617-014	Soil
10MS	NR-51MS	10041617-014MS	Soil
10MSD	NR-51MSD	10041617-014MSD	Soil
11	NR-62	10041617-015	Soil
12	DUP-10	10041617-016	Soil
13	DUP-11	10041617-017	Soil
14	DUP-12	10041617-018	Soil
15	R-67	10041617-019	Soil
16	R-87	10041617-020	Soil
17	R-112	10041617-021	Soil
18	R-141	10041617-023	Soil
18MS	R-141MS	10041617-023MS	Soil
18MSD	R-141MSD	10041617-023MSD	Soil
19	R-160	10041617-024	Soil
20	NR-52	10041617-026	Soil
21	NR-53	10041617-027	Soil
22	NR-66	10041617-030	Soil
23	NR-69	10041617-031	Soil
24	DUP-13	10041617-037	Soil
25	DUP-14	10041617-038	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - All samples exhibited acceptable surrogate recoveries except the following.

Sample ID	Surrogate	%R	Qualifier
13	SDMC1= 2-Fluorobiphenyl	139%	K- positive results unless already qualified (J)
	SDMC3= Nitrobenzene-d5	101%	
	SDMC5= Terphenyl-D14	170%	
16	SDMC1= 2-Fluorobiphenyl	114%	None for only 1 out

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier
9	Many compounds	High	Not valid due to high concentrations
18	40 of 42 compounds	RPD out only	None for RPD only

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria except the following.

Sample ID	Internal Standard	Area Count	Qualifier
10	IS6= Perylene-d12	Low	J/UJ- associated compounds
11	IS6= Perylene-d12	Low	J/UJ- associated compounds
15	IS6= Perylene-d12	Low	J/UJ- associated compounds
23	IS6= Perylene-d12	Low	J/UJ- associated compounds

Method Blank - The method blanks were free of contamination.

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level ug/L	Qualifier	Affected Samples
EB-3	None-ND	-	-	-	-
EB-4	None-ND	-	-	-	-

Field Duplicates - Field duplicate results are summarized below.

Compound	R-6 ug/kg	DUP-10 ug/kg	RPD	Qualifier
Benzo(a)anthracene	330	350	6%	None
Benzo(a)pyrene	310	350	12%	None
Benzo(b)fluoranthene	310	330	6%	None
Benzo(g,h,i)perylene	200 U	150	NC	None
Benzo(k)fluoranthene	260	270	4%	None
Chrysene	330	370	11%	None
Dibenz(a,h)Anthracene	28 U	47	NC	None
Fluoranthene	630	570	10%	None
Indeno(1,2,3-c,d)Pyrene	120	200	50%	None
Phenanthrene	320	340	6%	None
Pyrene	560	550	2%	None

Compound	NR-8 ug/kg	DUP-11 ug/kg	RPD	Qualifier
Acenaphthene	2800	10000	113%	J
Anthracene	4600	4400 U	NC	None
Benzo(a)anthracene	26000	47000	58%	None
Benzo(a)pyrene	21000	42000	67%	None
Benzo(b)fluoranthene	24000	47000	65%	None
Benzo(g,h,i)perylene	5200	16000	102%	J
Benzo(k)fluoranthene	9700	37000	117%	J
Chrysene	27000	46000	52%	None
Dibenz(a,h)Anthracene	1000	5300	137%	J
Fluoranthene	60000	130000	74%	None
Fluorene	2200	7200	106%	J
Indeno(1,2,3-c,d)Pyrene	6800	21000	102%	J
2-Methylnaphthalene	450	4400 U	NC	None
Naphthalene	1000	3300	107%	J
Phenanthrene	39000	54000	32%	None
Pyrene	47000	130000	94%	None

Compound	NR-51 ug/kg	DUP-12 ug/kg	RPD	Qualifier
Benzo(a)anthracene	230	200	14%	None
Benzo(a)pyrene	270	300	11%	None
Benzo(b)fluoranthene	260	270	4%	None
Benzo(g,h,i)perylene	190	180	5%	None
Benzo(k)fluoranthene	240	220	9%	None
Chrysene	260	250	4%	None

Compound	NR-51 ug/kg	DUP-12 ug/kg	RPD	Qualifier
Fluoranthene	410	280	38%	None
Indeno(1,2,3-c,d)Pyrene	180	170	6%	None
Phenanthrene	190	250 U	NC	None
Pyrene	550	480	14%	None

Compound	R-141 ug/kg	DUP-13 ug/kg	RPD	Qualifier
Benzo(a)pyrene	34	40	16%	None
Fluoranthene	200 U	110	NC	None

Compound	NR-66 ug/kg	DUP-14 ug/kg	RPD	Qualifier
Acenaphthene	200 U	550	NC	None
Anthracene	200 U	570	NC	None
Benzo(a)anthracene	200 U	1800	NC	None
Benzo(a)pyrene	28 U	1600	NC	None
Benzo(b)fluoranthene	200 U	1800	NC	None
Benzo(g,h,i)perylene	200 U	770	NC	None
Benzo(k)fluoranthene	200 U	1400	NC	None
Chrysene	200 U	1800	NC	None
Dibenz(a,h)Anthracene	28 U	220	NC	None
Fluoranthene	200 U	3600	NC	None
Fluorene	200 U	350	NC	None
Indeno(1,2,3-c,d)Pyrene	200 U	1000	NC	None
Naphthalene	200 U	170	NC	None
Phenanthrene	200 U	2500	NC	None
Pyrene	200 U	3100	NC	None

Compound Quantitation - Several samples were analyzed at 10X, 20X, and 100X dilutions due to high concentrations of target compounds. EDS sample ID# 9 exhibited high concentrations for several compounds that were reported with an (E) flag by the laboratory because they exceeded the calibration range. The reviewer qualified these results estimated (J).

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-6

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81862 Mod. Ref No.: _____ SDG No.: 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-001

Sample wt/vol: 30.03 (g/mL):g Lab File ID: 10041712.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/17/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	330	
50-32-8	Benzo(a)pyrene	310	
205-99-2	Benzo(b)fluoranthene	310	
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	260	
218-01-9	Chrysene	330	
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	630	
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	120	J
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	320	
129-00-0	Pyrene	560	

RW
8/13/10

SW8270C

2

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-29

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81862 Mod. Ref No : _____ SDG No.: 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-002

Sample wt/vol: 30.14 (g/mL):g Lab File ID: 10041710.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/17/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

NW
8/13/10

(1) Cannot be separated from Diphenylamine

SW8270C

3

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-106

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81862 Mod Ref No : _____ SDG No.: 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-003

Sample wt/vol: 30.15 (g/mL): g Lab File ID: 10041711.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 0 Decanted: (Y/N) N Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/17/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	38	
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	120	J
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	100	J

NW
8/13/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-128

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81860 Mod. Ref No.: _____ SDG No.: 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-004

Sample wt/vol: 30.27 (g/mL):g Lab File ID: 10041927.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 04/16/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 04/17/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 04/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	2,000	U
208-96-8	Acenaphthylene	2,000	U
120-12-7	Anthracene	1,400	J
56-55-3	Benzo(a)anthracene	4,100	
50-32-8	Benzo(a)pyrene	3,000	
205-99-2	Benzo(b)fluoranthene	3,300	
191-24-2	Benzo(g,h,i)perylene	1,100	J
207-08-9	Benzo(k)fluoranthene	2,800	
218-01-9	Chrysene	4,100	
53-70-3	Dibenz(a,h)Anthracene	360	
206-44-0	Fluoranthene	9,000	
86-73-7	Fluorene	2,000	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	1,400	J
91-57-6	2-Methylnaphthalene	2,000	U
91-20-3	Naphthalene	2,000	U
85-01-8	Phenanthrene	6,100	
129-00-0	Pyrene	8,200	

MW
8/13/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-150

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81861 Mod. Ref No : _____ SDG No.: 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-005

Sample wt/vol: 30.16 (g/mL):g Lab File ID: 10042010.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	2,100	U
208-96-8	Acenaphthylene	2,100	U
120-12-7	Anthracene	2,100	U
56-55-3	Benzo(a)anthracene	1,400	J
50-32-8	Benzo(a)pyrene	1,200	
205-99-2	Benzo(b)fluoranthene	1,400	J
191-24-2	Benzo(g,h,i)perylene	2,100	U
207-08-9	Benzo(k)fluoranthene	1,200	J
218-01-9	Chrysene	1,400	J
53-70-3	Dibenz(a,h)Anthracene	290	U
206-44-0	Fluoranthene	3,000	
86-73-7	Fluorene	2,100	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	2,100	U
91-57-6	2-Methylnaphthalene	2,100	U
91-20-3	Naphthalene	2,100	U
85-01-8	Phenanthrene	2,100	
129-00-0	Pyrene	3,500	

MW 8/13/10

SW8270C

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-156

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81861 Mod. Ref No.: _____ SDG No.: 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-006

Sample wt/vol: 30.03 (g/mL):g Lab File ID: 10042009.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	210	
50-32-8	Benzo(a)pyrene	180	
205-99-2	Benzo(b)fluoranthene	200	
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	180	J
218-01-9	Chrysene	200	
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	430	
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	110	J
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	240	
129-00-0	Pyrene	510	

NW
8/13/10

(1) Cannot be separated from Diphenylamine

SW8270C

7

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-164

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81862 Mod Ref No : _____ SDG No : 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-007

Sample wt/vol: 30.11 (g/mL):g Lab File ID: 10041713.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 30 Decanted: (Y/N) N Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/17/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	240	U
208-96-8	Acenaphthylene	240	U
120-12-7	Anthracene	240	U
56-55-3	Benzo(a)anthracene	240	U
50-32-8	Benzo(a)pyrene	33	U
205-99-2	Benzo(b)fluoranthene	240	U
191-24-2	Benzo(g,h,i)perylene	240	U
207-08-9	Benzo(k)fluoranthene	240	U
218-01-9	Chrysene	240	U
53-70-3	Dibenz(a,h)Anthracene	33	U
206-44-0	Fluoranthene	240	U
86-73-7	Fluorene	240	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	240	U
91-57-6	2-Methylnaphthalene	240	U
91-20-3	Naphthalene	240	U
85-01-8	Phenanthrene	240	U
129-00-0	Pyrene	240	U

NW
8/13/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-209

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81862 Mod. Ref No.: _____ SDG No.: 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-011

Sample wt/vol: 30.11 (g/mL):g Lab File ID: 10041709.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 04/16/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 04/17/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 04/17/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

MW 8/13/10

(1) Cannot be separated from Diphenylamine

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-8 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81862 Mod Ref No : _____ SDG No.: 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-013

Sample wt/vol: 30 (g/mL):g Lab File ID: 10041717.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	2,800		J
208-96-8	Acenaphthylene	220	U	
120-12-7	Anthracene	4,600	~~E~~	J
191-24-2	Benzo(g,h,i)perylene	5,200	~~E~~	↓
207-08-9	Benzo(k)fluoranthene	9,700	~~E~~	↓
53-70-3	Dibenz(a,h)Anthracene	1,000		J
86-73-7	Fluorene	2,200		J
193-39-5	Indeno(1,2,3-c,d)Pyrene	6,800	~~E~~	J
91-57-6	2-Methylnaphthalene	450		
91-20-3	Naphthalene	1,000		J

nw
8/13/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-8 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81862 Mod Ref No : _____ SDG No : 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-013

Sample wt/vol: 30 (g/mL):g Lab File ID: 10041717.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 100.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
56-55-3	Benzo(a)anthracene	26,000	
50-32-8	Benzo(a)pyrene	21,000	
205-99-2	Benzo(b)fluoranthene	24,000	
218-01-9	Chrysene	27,000	
206-44-0	Fluoranthene	60,000	
85-01-8	Phenanthrene	39,000	
129-00-0	Pyrene	47,000	

NW
8/13/10

SW8270C

10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-51 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81862 Mod. Ref No.: _____ SDG No.: 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-014

Sample wt/vol: 30.27 (g/mL):g Lab File ID: 10041716.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) CLEAR Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/17/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	220	U	
208-96-8	Acenaphthylene	220	U	
120-12-7	Anthracene	220	U	
56-55-3	Benzo(a)anthracene	230		
50-32-8	Benzo(a)pyrene	270		J
205-99-2	Benzo(b)fluoranthene	260		↓
191-24-2	Benzo(g,h,i)perylene	190	~~J~~	
207-08-9	Benzo(k)fluoranthene	240		
218-01-9	Chrysene	260		
53-70-3	Dibenz(a,h)Anthracene	31	~~U~~	UJ
206-44-0	Fluoranthene	410		
86-73-7	Fluorene	220	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	~~J~~	J
91-57-6	2-Methylnaphthalene	220	U	
91-20-3	Naphthalene	220	U	
85-01-8	Phenanthrene	190	J	
129-00-0	Pyrene	550		

NW
8/13/10

(1) Cannot be separated from Diphenylamine

SW8270C

11

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

NR-62

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81862 Mod. Ref No.: _____ SDG No.: 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-015

Sample wt/vol: 30.41 (g/mL):g Lab File ID: 10041720.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 0 Decanted: (Y/N) CLEAR Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	220	U
208-96-8	Acenaphthylene	220	U
120-12-7	Anthracene	220	U
56-55-3	Benzo(a)anthracene	220	U
50-32-8	Benzo(a)pyrene	1,500	
205-99-2	Benzo(b)fluoranthene	1,100	
191-24-2	Benzo(g,h,i)perylene	870	
207-08-9	Benzo(k)fluoranthene	1,100	
218-01-9	Chrysene	220	U
53-70-3	Dibenz(a,h)Anthracene	440	
206-44-0	Fluoranthene	220	U
86-73-7	Fluorene	220	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	1,200	
91-57-6	2-Methylnaphthalene	220	U
91-20-3	Naphthalene	220	U
85-01-8	Phenanthrene	220	U
129-00-0	Pyrene	220	U

MW 8/13/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81861 Mod. Ref No.: _____ SDG No.: 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-016

Sample wt/vol: 30.12 (g/mL):g Lab File ID: 10042007.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) CLEAR Date Received: 04/16/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 04/17/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 04/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	350	
50-32-8	Benzo(a)pyrene	350	
205-99-2	Benzo(b)fluoranthene	330	
191-24-2	Benzo(g,h,i)perylene	150	J
207-08-9	Benzo(k)fluoranthene	270	
218-01-9	Chrysene	370	
53-70-3	Dibenz(a,h)Anthracene	47	
206-44-0	Fluoranthene	570	
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	J
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	340	
129-00-0	Pyrene	550	

NW
8/13/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
DUP-11

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81860 Mod Ref No.: _____ SDG No : 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-017

Sample wt/vol: 30.63 (g/mL):g Lab File ID: 10041926.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) CLEAR Date Received: 04/16/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 04/17/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 04/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	10,000		J
208-96-8	Acenaphthylene	4,400	U	
120-12-7	Anthracene	16,000		K
56-55-3	Benzo(a)anthracene	47,000		
50-32-8	Benzo(a)pyrene	42,000		
205-99-2	Benzo(b)fluoranthene	47,000		
191-24-2	Benzo(g,h,i)perylene	16,000		J
207-08-9	Benzo(k)fluoranthene	37,000		
218-01-9	Chrysene	46,000		K
53-70-3	Dibenz(a,h)Anthracene	5,300		J
86-73-7	Fluorene	7,200		
193-39-5	Indeno(1,2,3-c,d)Pyrene	21,000		
91-57-6	2-Methylnaphthalene	4,400	U	
91-20-3	Naphthalene	3,300	✓	J
85-01-8	Phenanthrene	54,000		K

NW
8/13/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-11

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81860 Mod. Ref No : _____ SDG No.: 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-017

Sample wt/vol: 30.63 (g/mL):g Lab File ID: 10041926.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) CLEAR Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 100.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
206-44-0	Fluoranthene	130,000	
129-00-0	Pyrene	130,000	

MW
8/13/10

(1) Cannot be separated from Diphenylamine

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-12

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81861 Mod. Ref No : _____ SDG No : 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-018

Sample wt/vol: 30.21 (g/mL): g Lab File ID: 10042008.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 33 Decanted: (Y/N) CLEAR Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	250	U
208-96-8	Acenaphthylene	250	U
120-12-7	Anthracene	250	U
56-55-3	Benzo(a)anthracene	200	J
50-32-8	Benzo(a)pyrene	300	
205-99-2	Benzo(b)fluoranthene	270	
191-24-2	Benzo(g,h,i)perylene	180	J
207-08-9	Benzo(k)fluoranthene	220	J
218-01-9	Chrysene	250	
53-70-3	Dibenz(a,h)Anthracene	35	U
206-44-0	Fluoranthene	280	
86-73-7	Fluorene	250	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	170	J
91-57-6	2-Methylnaphthalene	250	U
91-20-3	Naphthalene	250	U
85-01-8	Phenanthrene	250	U
129-00-0	Pyrene	480	

NW
8/13/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-67

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81862 Mod. Ref No.: _____ SDG No : 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-019

Sample wt/vol: 30.33 (g/mL):g Lab File ID: 10041721.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) CLEAR Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/18/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	210	U	
208-96-8	Acenaphthylene	210	U	
120-12-7	Anthracene	210	U	
56-55-3	Benzo(a)anthracene	210	U	
50-32-8	Benzo(a)pyrene	430		J
205-99-2	Benzo(b)fluoranthene	250		↓
191-24-2	Benzo(g,h,i)perylene	470		
207-08-9	Benzo(k)fluoranthene	210		
218-01-9	Chrysene	210	U	
53-70-3	Dibenz(a,h)Anthracene	220		J
206-44-0	Fluoranthene	210	U	
86-73-7	Fluorene	210	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	620		J
91-57-6	2-Methylnaphthalene	210	U	
91-20-3	Naphthalene	210	U	
85-01-8	Phenanthrene	210	U	
129-00-0	Pyrene	210	U	

NW
8/13/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-87

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81860 Mod. Ref No.: _____ SDG No : 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-020

Sample wt/vol: 30.03 (g/mL):g Lab File ID: 10041928.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) CLEAR Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	3,200	
208-96-8	Acenaphthylene	2,100	U
120-12-7	Anthracene	4,900	
56-55-3	Benzo(a)anthracene	12,000	
50-32-8	Benzo(a)pyrene	10,000	
205-99-2	Benzo(b)fluoranthene	12,000	
191-24-2	Benzo(g,h,i)perylene	3,400	
207-08-9	Benzo(k)fluoranthene	9,200	
218-01-9	Chrysene	12,000	
53-70-3	Dibenz(a,h)Anthracene	1,100	
206-44-0	Fluoranthene	25,000	
86-73-7	Fluorene	3,400	
193-39-5	Indeno(1,2,3-c,d)Pyrene	4,200	
91-57-6	2-Methylnaphthalene	2,100	U
91-20-3	Naphthalene	1,300	J
85-01-8	Phenanthrene	20,000	
129-00-0	Pyrene	21,000	

NW
8/13/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-112

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81861 Mod. Ref No.: _____ SDG No.: 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-021

Sample wt/vol: 30.65 (g/mL):g Lab File ID: 10042006.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 35 Decanted: (Y/N) CLEAR Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	250	U
208-96-8	Acenaphthylene	250	U
120-12-7	Anthracene	250	U
56-55-3	Benzo(a)anthracene	230	J
50-32-8	Benzo(a)pyrene	210	
205-99-2	Benzo(b)fluoranthene	210	J
191-24-2	Benzo(g,h,i)perylene	140	J
207-08-9	Benzo(k)fluoranthene	190	J
218-01-9	Chrysene	260	
53-70-3	Dibenz(a,h)Anthracene	35	U
206-44-0	Fluoranthene	530	
86-73-7	Fluorene	250	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	160	J
91-57-6	2-Methylnaphthalene	250	U
91-20-3	Naphthalene	250	U
85-01-8	Phenanthrene	350	
129-00-0	Pyrene	540	

nw
8/13/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-141 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81859 Mod. Ref No.: _____ SDG No : 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-023

Sample wt/vol: 30.21 (g/mL):g Lab File ID: 10041906.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 0 Decanted: (Y/N) N Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	34	
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

NW
8/13/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-160

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81859 Mod Ref No.: _____ SDG No.: 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-024

Sample wt/vol: 30.27 (g/mL):g Lab File ID: 10041909.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

NW
8/13/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
NR-52

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81859 Mod. Ref No : _____ SDG No.: 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-026

Sample wt/vol: 30.18 (g/mL):g Lab File ID: 10041910.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	220	U
208-96-8	Acenaphthylene	220	U
120-12-7	Anthracene	220	U
56-55-3	Benzo(a)anthracene	220	U
50-32-8	Benzo(a)pyrene	31	U
205-99-2	Benzo(b)fluoranthene	220	U
191-24-2	Benzo(g,h,i)perylene	220	U
207-08-9	Benzo(k)fluoranthene	220	U
218-01-9	Chrysene	220	U
53-70-3	Dibenz(a,h)Anthracene	31	U
206-44-0	Fluoranthene	220	U
86-73-7	Fluorene	220	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	220	U
91-57-6	2-Methylnaphthalene	220	U
91-20-3	Naphthalene	220	U
85-01-8	Phenanthrene	220	U
129-00-0	Pyrene	220	U

NW
8/13/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
NR-53

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81861 Mod. Ref No.: _____ SDG No.: 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-027

Sample wt/vol: 30.34 (g/mL):g Lab File ID: 10042005.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	630	
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	940	
56-55-3	Benzo(a)anthracene	3,000	
50-32-8	Benzo(a)pyrene	2,600	
205-99-2	Benzo(b)fluoranthene	2,800	
191-24-2	Benzo(g,h,i)perylene	990	
207-08-9	Benzo(k)fluoranthene	2,400	
218-01-9	Chrysene	2,800	
53-70-3	Dibenz(a,h)Anthracene	320	
86-73-7	Fluorene	430	
193-39-5	Indeno(1,2,3-c,d)Pyrene	1,400	
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	180	J

NW
8/13/10

21

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
NR-53

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81861 Mod. Ref No.: _____ SDG No.: 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-027

Sample wt/vol: 30.34 (g/mL):g Lab File ID: 10042005.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
206-44-0	Fluoranthene	7,400	
85-01-8	Phenanthrene	5,400	
129-00-0	Pyrene	7,700	

NEJ
8/13/10

(1) Cannot be separated from Diphenylamine

SW8270C

IE - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-66

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81859 Mod Ref No.: _____ SDG No : 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-030

Sample wt/vol: 30.42 (g/mL):g Lab File ID: 10041911.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

MW
8/13/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-69

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81859 Mod. Ref No.: _____ SDG No.: 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-031

Sample wt/vol: 30.19 (g/mL): g Lab File ID: 10041915.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	670	
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	1,400	
191-24-2	Benzo(g,h,i)perylene	1,300	
207-08-9	Benzo(k)fluoranthene	2,500	
53-70-3	Dibenz(a,h)Anthracene	420	
86-73-7	Fluorene	690	
193-39-5	Indeno(1,2,3-c,d)Pyrene	1,700	
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	120	J

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8/13/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
NR-69

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81859 Mod. Ref No : _____ SDG No.: 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-031

Sample wt/vol: 30.19 (g/mL):g Lab File ID: 10041915.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/19/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
56-55-3	Benzo(a)anthracene	4,200	
50-32-8	Benzo(a)pyrene	3,600	J
205-99-2	Benzo(b)fluoranthene	4,100	J
218-01-9	Chrysene	4,300	
206-44-0	Fluoranthene	8,700	
85-01-8	Phenanthrene	6,600	
129-00-0	Pyrene	9,800	

NW
8/13/10

(1) Cannot be separated from Diphenylamine

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
DUP-13

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81861 Mod. Ref No.: _____ SDG No.: 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-037

Sample wt/vol: 30.34 (g/mL):g Lab File ID: 10042004.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	40	
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	110	J
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

lew
8/13/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-14

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81861 Mod. Ref No.: _____ SDG No.: 10041617

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041617-038

Sample wt/vol: 30.29 (g/mL):g Lab File ID: 10042003.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 27 Decanted: (Y/N) N Date Received: 04/16/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/17/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/20/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	550	
208-96-8	Acenaphthylene	230	U
120-12-7	Anthracene	570	
56-55-3	Benzo(a)anthracene	1,800	
50-32-8	Benzo(a)pyrene	1,600	
205-99-2	Benzo(b)fluoranthene	1,800	
191-24-2	Benzo(g,h,i)perylene	770	
207-08-9	Benzo(k)fluoranthene	1,400	
218-01-9	Chrysene	1,800	
53-70-3	Dibenz(a,h)Anthracene	220	
206-44-0	Fluoranthene	3,600	
86-73-7	Fluorene	350	
193-39-5	Indeno(1,2,3-c,d)Pyrene	1,000	
91-57-6	2-Methylnaphthalene	230	U
91-20-3	Naphthalene	170	J
85-01-8	Phenanthrene	2,500	
129-00-0	Pyrene	3,100	

MW
8/13/10

ENVIRONMENTAL
Data Services, Inc.

TAL METALS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10041617

Client: ARGO Systems, Glen Burnie, MD Date: August 13, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	R-6	10041617-001	Soil
2	R-29	10041617-002	Soil
3*	R-106	10041617-003	Soil
4*	R-174	10041617-008	Soil
5*	R-183	10041617-009	Soil
6*	R-194	10041617-010	Soil
7*	R-216	10041617-012	Soil
8	NR-8	10041617-013	Soil
8MS	NR-8MS	10041617-013MS	Soil
8MSD	NR-8MSD	10041617-013MSD	Soil
9	NR-51	10041617-014	Soil
9MS	NR-51MS	10041617-014MS	Soil
9MSD	NR-51MSD	10041617-014MSD	Soil
10*	NR-62	10041617-015	Soil
11	DUP-10	10041617-016	Soil
12	DUP-11	10041617-017	Soil
13	DUP-12	10041617-018	Soil
14*	R-138	10041617-022	Soil
15*	R-141	10041617-023	Soil
15MS*	R-141MS	10041617-023MS	Soil
15MSD*	R-141MSD	10041617-023MSD	Soil
16*	R-171	10041617-025	Soil
17*	NR-57	10041617-028	Soil
18	NR-59	10041617-029	Soil
19*	NR-70	10041617-032	Soil
20	NR-72	10041617-033	Soil
21*	NR-78	10041617-034	Soil
22	NR-80	10041617-035	Soil
23*	NR-86	10041617-036	Soil
24*	DUP-13	10041617-037	Soil
25	DUP-15	10041617-039	Soil

** - Arsenic only*

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks exhibited the following contamination.

Compound	Conc. mg/kg	Action Level mg/kg	Qualifier	Affected Samples
Zinc (PB 81851)	5.470	27.35	None	All > 5X
Zinc (PB 81865)	5.330	26.65	None	All > 5X

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level mg/kg	Qualifier	Affected Samples
EB-3	Arsenic	0.5	1.25	None	All > 5X
	Zinc	10	25.0	None	
EB-4	Arsenic	0.5	1.25	None	All > 5X
	Chromium	0.6	1.50	None	
	Copper	0.6	1.50	None	

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier	Affected Samples
8	Antimony	71%/OK/OK	L/UL	1-14, 16-19
	Chromium	OK/59%/50	L/UL	
	Nickel	OK/70%/OK	L/UL	
9	Antimony	68%/62%/OK	L/UL	1-14, 16-19
	Arsenic	0%/0%/OK	L/R	
	Zinc	OK/73%/OK	L/UL	

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate results are summarized below.

Compound	R-6 mg/kg	DUP-10 mg/kg	RPD	Qualifier
Antimony	3.9	4.4	12%	None
Arsenic	7.3	8.3	13%	None
Chromium	15	20	29%	None
Copper	56	74	28%	None
Lead	388	2138	139%	J
Mercury	0.25	0.32	25%	None
Nickel	12	14	15%	None
Zinc	323.9	380.5	16%	None

Compound	NR-8 mg/kg	DUP-11 mg/kg	RPD	Qualifier
Arsenic	3.3	3.0	10%	None
Chromium	25	24	4%	None
Copper	18	19	5%	None
Lead	160	190	17%	None
Mercury	0.24	0.25	4%	None
Nickel	19	24	23%	None
Thallium	0.29	0.6 U	NC	None
Zinc	92	120	26%	None

Compound	NR-51 mg/kg	DUP-12 mg/kg	RPD	Qualifier
Arsenic	62	120	64%	None
Chromium	14	17	19%	None
Copper	9.0	11	20%	None
Lead	100	80	22%	None
Mercury	0.06	0.07	15%	None
Nickel	15	19	24%	None
Zinc	62	73	16%	None

Compound	R-141 mg/kg	DUP-13 mg/kg	RPD	Qualifier
Arsenic	4.2	3.6	15%	None

Compound	NR-72 mg/kg	DUP-15 mg/kg	RPD	Qualifier
Arsenic	3.4	2.6	27%	None
Chromium	16	11	37%	None
Copper	12	8.8	31%	None
Lead	47	48	2%	None

Compound	NR-72 mg/kg	DUP-15 mg/kg	RPD	Qualifier
Mercury	0.05	0.1 U	NC	None
Nickel	33	33	0%	None
Zinc	40	43	7%	None

Compound Quantitation - All criteria were met.

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-6

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No.: 10041617

Matrix (soil/water): SOIL Lab Sample ID: 10041617-001

Level (low/med): LOW Date Received: 04/16/2010

% Solids: 82 Batch #: 81849

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.9		~~N~~	MS	L
7440-38-2	Arsenic	7.3		~~N~~	MS	L
7440-41-7	Beryllium	2.2	U		MS	
7440-43-9	Cadmium	2.2	U		MS	
7440-47-3	Chromium	15			MS	L
7440-50-8	Copper	56			MS	
7439-92-1	Lead	388		~~N~~	MS	J
7439-97-6	Mercury	0.25			MS	
7440-02-0	Nickel	12			MS	L
7782-49-2	Selenium	2.2	U		MS	
7440-22-4	Silver	2.2	U		MS	
7440-28-0	Thallium	0.4	U		MS	
7440-66-6	Zinc	323.9			MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 8/13/10

FORM IA - IN SW6020

2

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-29

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10041617

Matrix (soil/water): SOIL Lab Sample ID: 10041617-002

Level (low/med): LOW Date Received: 04/16/2010

% Solids: 84 Batch #: 81849

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.5	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	2.8		~~N~~	MS	L
7440-41-7	Beryllium	2.5	U		MS	
7440-43-9	Cadmium	2.5	U		MS	
7440-47-3	Chromium	15			MS	L
7440-50-8	Copper	13			MS	
7439-92-1	Lead	8.1		~~N~~	MS	
7439-97-6	Mercury	0.1	U		MS	
7440-02-0	Nickel	8.2			MS	L
7782-49-2	Selenium	2.5	U		MS	
7440-22-4	Silver	2.5	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	36			MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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8/13/10

3

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-106

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No.: 10041617

Matrix (soil/water): SOIL Lab Sample ID: 10041617-003

Level (low/med): LOW Date Received: 04/16/2010

% Solids: 100 Batch #: 81849

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-38-2	Arsenic	5.6		~~N~~	MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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8/13/10

FORM IA - IN SW6020

4

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-174

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10041617

Matrix (soil/water): SOIL Lab Sample ID: 10041617-008

Level (low/med): LOW Date Received: 04/16/2010

% Solids: 100 Batch #: 81849

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.6		~~N~~	MS

L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/13/10

5

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
R-183

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10041617

Matrix (soil/water): SOIL Lab Sample ID: 10041617-009

Level (low/med): LOW Date Received: 04/16/2010

% Solids: 100 Batch #: 81849

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.2		~~N~~	MS L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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8/13/10

FORM IA - IN SW6020

6

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-194

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10041617

Matrix (soil/water): SOIL Lab Sample ID: 10041617-010

Level (low/med): LOW Date Received: 04/16/2010

% Solids: 100 Batch #: 81849

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.5		N	MS

L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/13/10

FORM IA - IN SW6020

7

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-216

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No.: 10041617

Matrix (soil/water): SOIL Lab Sample ID: 10041617-012

Level (low/med): LOW Date Received: 04/16/2010

% Solids: 100 Batch #: 81849

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.7		N	MS

L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/13/10

8

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-8 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10041617

Matrix (soil/water): SOIL Lab Sample ID: 10041617-013

Level (low/med): LOW Date Received: 04/16/2010

% Solids: 76 Batch #: 81849

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.6	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	3.3		~~N~~	MS	L
7440-41-7	Beryllium	2.6	U		MS	
7440-43-9	Cadmium	2.6	U		MS	
7440-47-3	Chromium	25			MS	L
7440-50-8	Copper	18			MS	
7439-92-1	Lead	160		~~N~~	MS	
7439-97-6	Mercury	0.24			MS	
7440-02-0	Nickel	19			MS	L
7782-49-2	Selenium	2.6	U		MS	
7440-22-4	Silver	2.6	U		MS	
7440-28-0	Thallium	0.29	J		MS	
7440-66-6	Zinc	92			MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

RW 8/13/10

FORM IA - IN SW6020

9

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-51 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10041617

Matrix (soil/water): SOIL Lab Sample ID: 10041617-014

Level (low/med): LOW Date Received: 04/16/2010

% Solids: 75 Batch #: 81849

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.5	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	62		~~N~~	MS	L
7440-41-7	Beryllium	2.5	U		MS	
7440-43-9	Cadmium	2.5	U		MS	
7440-47-3	Chromium	14			MS	L
7440-50-8	Copper	9.0			MS	
7439-92-1	Lead	100		~~N~~	MS	
7439-97-6	Mercury	0.06	J		MS	
7440-02-0	Nickel	15			MS	L
7782-49-2	Selenium	2.5	U		MS	
7440-22-4	Silver	2.5	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	62			MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/13/10

FORM IA - IN SW6020

10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-62

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10041617

Matrix (soil/water): SOIL Lab Sample ID: 10041617-015

Level (low/med): LOW Date Received: 04/16/2010

% Solids: 100 Batch #: 81849

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.1		~~N~~	MS

L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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8/13/10

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-10

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10041617

Matrix (soil/water): SOIL Lab Sample ID: 10041617-016

Level (low/med): LOW Date Received: 04/16/2010

% Solids: 78 Batch #: 81849

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	4.4		~~N~~	MS	L
7440-38-2	Arsenic	8.3		~~N~~	MS	L
7440-41-7	Beryllium	3.1	U		MS	
7440-43-9	Cadmium	3.1	U		MS	
7440-47-3	Chromium	20			MS	L
7440-50-8	Copper	74			MS	
7439-92-1	Lead	2138		~~N~~	MS	J
7439-97-6	Mercury	0.32			MS	
7440-02-0	Nickel	14			MS	L
7782-49-2	Selenium	3.1	U		MS	
7440-22-4	Silver	3.1	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	380.5			MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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8/13/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-11

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10041617

Matrix (soil/water): SOIL Lab Sample ID: 10041617-017

Level (low/med): LOW Date Received: 04/16/2010

% Solids: 75 Batch #: 81849

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.2	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	3.0		~~N~~	MS	L
7440-41-7	Beryllium	3.2	U		MS	
7440-43-9	Cadmium	3.2	U		MS	
7440-47-3	Chromium	24			MS	L
7440-50-8	Copper	19			MS	
7439-92-1	Lead	190		~~N~~	MS	
7439-97-6	Mercury	0.25			MS	
7440-02-0	Nickel	24			MS	L
7782-49-2	Selenium	3.2	U		MS	
7440-22-4	Silver	3.2	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	120			MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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8/13/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-12

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10041617

Matrix (soil/water): SOIL Lab Sample ID: 10041617-018

Level (low/med): LOW Date Received: 04/16/2010

% Solids: 67 Batch #: 81849

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.0	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	120		~~N~~	MS	L
7440-41-7	Beryllium	3.0	U		MS	
7440-43-9	Cadmium	3.0	U		MS	
7440-47-3	Chromium	17			MS	L
7440-50-8	Copper	11			MS	
7439-92-1	Lead	80		~~N~~	MS	
7439-97-6	Mercury	0.07	J		MS	
7440-02-0	Nickel	19			MS	L
7782-49-2	Selenium	3.0	U		MS	
7440-22-4	Silver	3.0	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	73			MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
8/13/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-138

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10041617

Matrix (soil/water): SOIL Lab Sample ID: 10041617-022

Level (low/med): LOW Date Received: 04/16/2010

% Solids: 100 Batch #: 81849

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.9		N	MS

L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

LW
8/13/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-141 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No.: 10041617

Matrix (soil/water): SOIL Lab Sample ID: 10041617-023

Level (low/med): LOW Date Received: 04/16/2010

% Solids: 100 Batch #: 81851

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.2			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 8/13/10

16

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-171

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10041617

Matrix (soil/water): SOIL Lab Sample ID: 10041617-025

Level (low/med): LOW Date Received: 04/16/2010

% Solids: 100 Batch #: 81849

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-38-2	Arsenic	2.9		~~N~~	MS	L

Color Before BLACK Clarity Before _____ Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments: _____

MW 8/13/10

17

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-57

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10041617

Matrix (soil/water): SOIL Lab Sample ID: 10041617-028

Level (low/med): LOW Date Received: 04/16/2010

% Solids: 100 Batch #: 81849

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.4		N	MS

L

Color Before BLACK Clarity Before _____ Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments: _____

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8/13/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-59

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10041617

Matrix (soil/water): SOIL Lab Sample ID: 10041617-029

Level (low/med): LOW Date Received: 04/16/2010

% Solids: 76 Batch #: 81849

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.3	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	4.7		~~N~~	MS	L
7440-41-7	Beryllium	2.3	U		MS	
7440-43-9	Cadmium	2.3	U		MS	
7440-47-3	Chromium	9.5			MS	L
7440-50-8	Copper	14			MS	
7439-92-1	Lead	39		~~N~~	MS	
7439-97-6	Mercury	0.06	J		MS	
7440-02-0	Nickel	20			MS	L
7782-49-2	Selenium	2.3	U		MS	
7440-22-4	Silver	2.3	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	36			MS	L

Color Before BLACK Clarity Before _____ Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments: _____

MW 8/13/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
NR-70

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10041617
Matrix (soil/water): SOIL Lab Sample ID: 10041617-032
Level (low/med): LOW Date Received: 04/16/2010
% Solids: 100 Batch #: 81849

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	7.7		~~N~~	MS

L

Color Before BLACK Clarity Before _____ Texture: FINE
Color After: YELLOW Clarity After: CLEAR Artifacts: _____
Comments: _____

NW
8/13/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
NR-72

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No : 10041617
Matrix (soil/water): SOIL Lab Sample ID: 10041617-033
Level (low/med): LOW Date Received: 04/16/2010
% Solids: 80 Batch #: 81851

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.3	U		MS
7440-38-2	Arsenic	3.4			MS
7440-41-7	Beryllium	2.3	U		MS
7440-43-9	Cadmium	2.3	U		MS
7440-47-3	Chromium	16			MS
7440-50-8	Copper	12			MS
7439-92-1	Lead	47			MS
7439-97-6	Mercury	0.05	J		MS
7440-02-0	Nickel	33			MS
7782-49-2	Selenium	2.3	U		MS
7440-22-4	Silver	2.3	U		MS
7440-28-0	Thallium	0.5	U		MS
7440-66-6	Zinc	40			MS

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

NW 8/13/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-78

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10041617

Matrix (soil/water): SOIL Lab Sample ID: 10041617-034

Level (low/med): LOW Date Received: 04/16/2010

% Solids: 100 Batch #: 81851

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	6.5			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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FORM IA - IN SW6020

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-80

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10041617

Matrix (soil/water): SOIL Lab Sample ID: 10041617-035

Level (low/med): LOW Date Received: 04/16/2010

% Solids: 56 Batch #: 81851

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	4.2	U		MS
7440-38-2	Arsenic	15			MS
7440-41-7	Beryllium	4.2	U		MS
7440-43-9	Cadmium	4.2	U		MS
7440-47-3	Chromium	17			MS
7440-50-8	Copper	28			MS
7439-92-1	Lead	190			MS
7439-97-6	Mercury	0.23			MS
7440-02-0	Nickel	19			MS
7782-49-2	Selenium	4.2	U		MS
7440-22-4	Silver	4.2	U		MS
7440-28-0	Thallium	0.8	U		MS
7440-66-6	Zinc	130			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MS 8/13/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-86

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10041617

Matrix (soil/water): SOIL Lab Sample ID: 10041617-036

Level (low/med): LOW Date Received: 04/16/2010

% Solids: 100 Batch #: 81851

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	24			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/13/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-13

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10041617

Matrix (soil/water): SOIL Lab Sample ID: 10041617-037

Level (low/med): LOW Date Received: 04/16/2010

% Solids: 100 Batch #: 81851

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.6			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/13/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-15

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10041617

Matrix (soil/water): SOIL Lab Sample ID: 10041617-039

Level (low/med): LOW Date Received: 04/16/2010

% Solids: 66 Batch #: 81851

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.6	U		MS
7440-38-2	Arsenic	2.6			MS
7440-41-7	Beryllium	3.6	U		MS
7440-43-9	Cadmium	3.6	U		MS
7440-47-3	Chromium	11			MS
7440-50-8	Copper	8.8			MS
7439-92-1	Lead	48			MS
7439-97-6	Mercury	0.1	U		MS
7440-02-0	Nickel	33			MS
7782-49-2	Selenium	3.6	U		MS
7440-22-4	Silver	3.6	U		MS
7440-28-0	Thallium	0.7	U		MS
7440-66-6	Zinc	43			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

KEW
8/13/10

ENVIRONMENTAL
Data Services, Inc.

TAL METALS (MANGANESE, VANADIUM ONLY)

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10041418

Client: ARGO Systems, Glen Burnie, MD Date: August 13, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	DUP-4	10041418-001	Soil
1MS	DUP-4MS	10041418-001MS	Soil
1MSD	DUP-4MSD	10041418-001MSD	Soil
2	R-40	10041418-2	Soil

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 180 days for all metals.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier	Affected Samples
1	Vanadium	132%/OK/OK	K	Both samples

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate results are summarized below.

Compound	R-40 mg/kg	DUP-4 mg/kg	RPD	Qualifier
Manganese	390	380	3%	None
Vanadium	33	18	59%	None

Compound Quantitation - All criteria were met.

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-4

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS _____ SDG 10041418

Matrix (soil/water): SOIL Lab Sample ID: 10041418-001

Level (low/med): LOW Date Received: 04/09/2010

% Solids: 83 Batch #: 81982

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-96-5	Manganese	380			MS
7440-62-2	Vanadium	18	L	N	MS
					MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

lew
8/13/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

2

EPA SAMPLE NO.

R-40

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS _____ SDG 10041418

Matrix (soil/water): SOIL Lab Sample ID: 10041418-002

Level (low/med): LOW Date Received: 04/09/2010

% Solids: 84 Batch #: 81982

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7439-96-5	Manganese	390			MS
7440-62-2	Vanadium	33	K	~~N~~	MS
					MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/13/10

FORM IA - IN SW6020

ENVIRONMENTAL
Data Services, Inc.

HEXAVALENT CHROMIUM

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10041418

Client: ARGO Systems, Glen Burnie, MD Date: August 16, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	DUP-4	10041418-001	Soil
1MS	DUP-4MS	10041418-001MS	Soil
1MSD	DUP-4MSD	10041418-001MSD	Soil
2	R-40	10041418-002	Soil

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 30 days for hexavalent chromium.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values.

LCS - The LCS samples exhibited acceptable %R values.

Field Duplicates - Field duplicate results are summarized below.

Compound	R-40 mg/kg	DUP-4 mg/kg	RPD	Qualifier
Chromium, Hexavalent	ND	ND	-	-

Compound Quantitation - No discrepancies were identified.

OFFICES:
6630 BALTIMORE NATIONAL PIKE
ROUTE 40 WEST
BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 10041418
ARGO Systems, Glen Burnie, MD
April 26, 2010

Project Name: NTCB
Project Location: Port Deposit
Project ID: 1462309

Sample ID: Dup-4 **Date/Time Sampled: 04/05/2010 00:00** **PSS Sample ID: 10041418-001** 1
Matrix: SOIL **Date/Time Received: 04/09/2010 11:15** **% Solids: 83**

Total Metals — Analytical Method: SW846 6020A — Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Manganese	**380**	mg/kg	28		10	14	04/23/10	04/26/10 14:47	1033
Vanadium	**18**	mg/kg	2.8		1	1.4	04/23/10	04/26/10 13:25	1033

Chromium, Hexavalent — Analytical Method: SW846 7196A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chromium, Hexavalent	ND	mg/kg	12		5	12	04/22/10	04/22/10 00:00	1022

Sample ID: R-40 **Date/Time Sampled: 04/06/2010 11:00** **PSS Sample ID: 10041418-002** 2
Matrix: SOIL **Date/Time Received: 04/09/2010 11:15** **% Solids: 84**

Total Metals — Analytical Method: SW846 6020A — Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Manganese	**390**	mg/kg	24		10	12	04/23/10	04/26/10 14:54	1033
Vanadium	**33**	mg/kg	2.4		1	1.2	04/23/10	04/26/10 13:56	1033

Chromium, Hexavalent — Analytical Method: SW846 7196A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chromium, Hexavalent	ND	mg/kg	12		5	12	04/22/10	04/22/10 00:00	1022

lw 8/16/10

Final Ver 1.000

ENVIRONMENTAL
Data Services, Inc.

POLYNUCLEAR AROMATIC HYDRCARBONS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10041405

Client: ARGO Systems, Glen Burnie, MD Date: June 4, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	R-33	10041405-001	Soil
2	R-43	10041405-002	Soil
3	R-44	10041405-003	Soil
4	R-62	10041405-004	Soil
4MS	R-62MS	10041405-004MS	Soil
4MSD	R-62MSD	10041405-004MSD	Soil
5	R-129	10041405-005	Soil
6	R-159	10041405-006	Soil
6MS	R-159MS	10041405-006MS	Soil
6MSD	R-159MSD	10041405-006MSD	Soil
7	R-200	10041405-008	Soil
8	NR-5	10041405-010	Soil
9	NR-11	10041405-011	Soil
10	NR-12	10041405-012	Soil
11	NR-14	10041405-013	Soil
12	NR-82	10041405-015	Soil
13	DUP-8	10041405-016	Soil
13DL	DUP-8DL	10041405-016DL	Soil
14	DUP-9	10041405-017	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - All samples exhibited acceptable surrogate recoveries except the following.

Sample ID	Surrogate	%R	Qualifier
1	SDMC1= 2-Flurobiphenyl	112%	None for only 1 out per fraction
	SDMC2= 2-Fluorophenol	95%	None - only B/N PAH compounds reported
	SDMC6= 2,4,6- Tribromophenol	118%	
14	SDMC1= 2-Flurobiphenyl	112%	None for only 1 out per fraction
	SDMC2= 2-Fluorophenol	99%	None - only B/N PAH compounds reported
	SDMC6= 2,4,6- Tribromophenol	109%	
9	SDMC1= 2-Flurobiphenyl	143%	K - Positive results except those already qualified due to IS
	SDMC3= Nitrobenzene-d5	120%	
	SDMC5= Terphenyl-D14	166%	
	SDMC2= 2-Fluorophenol	124%	None - only B/N PAH compounds reported
	SDMC4= Phenol-d6	121%	
	SDMC6= 2,4,6- Tribromophenol	143%	

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier
4	Benzo(a)anthracene	166%/170%/Ok	K
	Benzo(a)pyrene	155%/163%/Ok	K
	Benzo(b)fluoranthene	194%/196%/Ok	K
	Benzo(k)fluoranthene	171%/174%/Ok	K
	Chrysene	160%/161%/Ok	K
	Fluoranthene	201%/196%/Ok	None - See FD
	Phenanthrene	181%/160%/Ok	K
	Pyrene	305%/336%/Ok	K
6	Acenaphthene	118%/117%/Ok	K
	Benzo(a)anthracene	140%/131%/Ok	None - Sample ND
	Benzo(b)fluoranthene	164%/157%/Ok	None - Sample ND
	Benzo(k)fluoranthene	144%/141%/Ok	None - Sample ND
	Chrysene	144%/132%/Ok	None - Sample ND
	Fluoranthene	142%/Ok/Ok	K
	Phenanthrene	167%160%/Ok	None - Sample ND
	Pyrene	170%/Ok/Ok	K

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria except the following.

Sample ID	Internal Standard	Area Count	Qualifier
2	IS5= Chrysene-d12	Low	J/UJ
	IS6= Perylene-d12	Low	J/UJ
8	IS5= Chrysene-d12	Low	J/UJ
	IS6= Perylene-d12	Severely Low	J/R
9	IS6= Perylene-d12	Low	J/UJ
10	IS6= Perylene-d12	Low	J/UJ
11	IS5= Chrysene-d12	Low	J/UJ
	IS6= Perylene-d12	Severely Low	J/R
14	IS6= Perylene-d12	Low	J/UJ

Method Blank - The method blanks were free of contamination.

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level mg/kg	Qualifier	Affected Samples
EB-1	None - ND	-	-	-	-
EB-2	None - ND	-	-	-	-

Field Duplicates - Field duplicate samples were not analyzed.

Compound	R-62 ug/kg	DUP-8 ug/kg	RPD	Qualifier
Acenaphthene	239.1	704.3	99%	None
Anthracene	265	895.8	109%	J
Benzo(a)anthracene	852.3	2511	99%	None
Benzo(a)pyrene	749.3	2207	99%	None
Benzo(b)fluoranthene	873.4	2549	98%	None
Benzo(g,h,i)perylene	286.1	794.1	94%	None
Benzo(k)fluoranthene	699.8	1793	88%	None
Chrysene	867.4	2495	97%	None
Dibenz(a,h)anthracene	80.58	240.2	100%	J
Fluoranthene	1903	7166	116%	J
Fluorene	123.7	474.6	117%	J
Indeno(1,2,3-cd)pyrene	382.2	1103	97%	None
Phenanthrene	1157	3358	97%	None
Pyrene	1671	4928	99%	None

Compound	R-159 ug/kg	DUP-9 ug/kg	RPD	Qualifier
Benzo(a)pyrene	519.8	478	8%	None
Fluoranthene	1248	1182	5%	None
Pyrene	1024	2100 U	NC	None

Compound Quantitation - Several sample were analyzed at a 10X dilution due to the dark and viscous nature of the sample extracts.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-33

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No : _____ Mod Ref No : _____ SDG No.: 10041405

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041405-001

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10041422.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 04/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	2,100	U
208-96-8	Acenaphthylene	2,100	U
120-12-7	Anthracene	2,100	U
56-55-3	Benzo(a)anthracene	2,100	U
50-32-8	Benzo(a)pyrene	290	U
205-99-2	Benzo(b)fluoranthene	2,100	U
191-24-2	Benzo(g,h,i)perylene	2,100	U
207-08-9	Benzo(k)fluoranthene	2,100	U
218-01-9	Chrysene	2,100	U
53-70-3	Dibenz(a,h)Anthracene	290	U
206-44-0	Fluoranthene	2,100	U
86-73-7	Fluorene	2,100	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	2,100	U
91-57-6	2-Methylnaphthalene	2,100	U
91-20-3	Naphthalene	2,100	U
85-01-8	Phenanthrene	2,100	U
129-00-0	Pyrene	2,100	U

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2

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-43

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: _____ Mod. Ref No : _____ SDG No : 10041405

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041405-002

Sample wt/vol: 30.2 (g/mL):g Lab File ID: 10041428.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 04/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	167.3	J
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	276.8	
56-55-3	Benzo(a)anthracene	617.3	
50-32-8	Benzo(a)pyrene	485.7	
205-99-2	Benzo(b)fluoranthene	436	
191-24-2	Benzo(g,h,i)perylene	157.5	~~J~~
207-08-9	Benzo(k)fluoranthene	496.7	
218-01-9	Chrysene	643.6	
53-70-3	Dibenz(a,h)Anthracene	58.16	
206-44-0	Fluoranthene	1293	
86-73-7	Fluorene	192.3	J
193-39-5	Indeno(1,2,3-c,d)Pyrene	193.6	~~J~~
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	1328	
129-00-0	Pyrene	1751	

J

J

J

NW
6/4/10

(1) Cannot be separated from Diphenylamine

SW8270C

3

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

R-44

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: _____ Mod. Ref No.: _____ SDG No : 10041405

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041405-003

Sample wt/vol: 30.04 (g/mL):g Lab File ID: 10041419.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 04/14/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 04/14/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 04/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	120.4	J
50-32-8	Benzo(a)pyrene	101.1	
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	139.6	J
53-70-3	Dibenz(a,h)Anthracene	30	U
206-44-0	Fluoranthene	267.6	
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	273.6	
129-00-0	Pyrene	318.4	

MW
6/4/10

4

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-62 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: _____ Mod. Ref No : _____ SDG No.: 10041405

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041405-004

Sample wt/vol: 30.14 (g/mL):g Lab File ID: 10041420.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23 Decanted: (Y/N) N Date Received: 04/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	239.1		
208-96-8	Acenaphthylene	220	U	
120-12-7	Anthracene	265		J
56-55-3	Benzo(a)anthracene	852.3		K
50-32-8	Benzo(a)pyrene	749.3		K
205-99-2	Benzo(b)fluoranthene	873.4		K
191-24-2	Benzo(g,h,i)perylene	286.1		
207-08-9	Benzo(k)fluoranthene	699.8		K
218-01-9	Chrysene	867.4		K
53-70-3	Dibenz(a,h)Anthracene	80.58		J
206-44-0	Fluoranthene	1903		J
86-73-7	Fluorene	123.7	J	J
193-39-5	Indeno(1,2,3-c,d)Pyrene	382.2		
91-57-6	2-Methylnaphthalene	220	U	
91-20-3	Naphthalene	220	U	
85-01-8	Phenanthrene	1157		K
129-00-0	Pyrene	1671		K

NW
6/4/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-129

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: _____ Mod. Ref No : _____ SDG No : 10041405

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041405-005

Sample wt/vol: 30.04 (g/mL):g Lab File ID: 10041415.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 04/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	175.8	J
50-32-8	Benzo(a)pyrene	147.4	
205-99-2	Benzo(b)fluoranthene	144.1	J
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	139.2	J
218-01-9	Chrysene	203.4	
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	485.1	
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	104.7	J
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	412.9	
129-00-0	Pyrene	413.3	

NW
6/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-159 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: _____ Mod Ref No : _____ SDG No.: 10041405

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041405-006

Sample wt/vol: 30.13 (g/mL):g Lab File ID: 10041423.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 04/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/14/2010

Injection Volume: _____ (µ L), GPC Factor: 1.000 Date Analyzed: 04/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	2,000	U
208-96-8	Acenaphthylene	2,000	U
120-12-7	Anthracene	2,000	U
56-55-3	Benzo(a)anthracene	2,000	U
50-32-8	Benzo(a)pyrene	519.8	
205-99-2	Benzo(b)fluoranthene	2,000	U
191-24-2	Benzo(g,h,i)perylene	2,000	U
207-08-9	Benzo(k)fluoranthene	2,000	U
218-01-9	Chrysene	2,000	U
53-70-3	Dibenz(a,h)Anthracene	280	U
206-44-0	Fluoranthene	1248	~~J~~ K
86-73-7	Fluorene	2,000	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	2,000	U
91-57-6	2-Methylnaphthalene	2,000	U
91-20-3	Naphthalene	2,000	U
85-01-8	Phenanthrene	2,000	U
129-00-0	Pyrene	1024	~~J~~ K

NW 6/4/10

(1) Cannot be separated from Diphenylamine

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-200

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No : _____ Mod Ref No : _____ SDG No : 10041405

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041405-008

Sample wt/vol: 30.15 (g/mL):g Lab File ID: 10041414.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 04/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

AW
6/4/10

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1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

NR-5

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: _____ Mod. Ref No : _____ SDG No : 10041405

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041405-010

Sample wt/vol: 30.19 (g/mL):g Lab File ID: 10041432.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 04/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	190	U	
208-96-8	Acenaphthylene	190	U	
120-12-7	Anthracene	190	U	
56-55-3	Benzo(a)anthracene	133.3	~~J~~	J
50-32-8	Benzo(a)pyrene	137.8		
205-99-2	Benzo(b)fluoranthene	137.4	~~J~~	
191-24-2	Benzo(g,h,i)perylene	198		
207-08-9	Benzo(k)fluoranthene	126	~~J~~	
218-01-9	Chrysene	143.2	~~J~~	
53-70-3	Dibenz(a,h)Anthracene	118.4		
206-44-0	Fluoranthene	303.8		
86-73-7	Fluorene	190	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	201.8		J
91-57-6	2-Methylnaphthalene	190	U	
91-20-3	Naphthalene	190	U	
85-01-8	Phenanthrene	280.2		
129-00-0	Pyrene	413.9		J

(1) Cannot be separated from Diphenylamine

NW 6/4/10

SW8270C

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-11

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: _____ Mod. Ref No.: _____ SDG No.: 10041405

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041405-011

Sample wt/vol: 30.08 (g/mL):g Lab File ID: 10041425.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 04/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	2,100	U	
208-96-8	Acenaphthylene	2,100	U	
120-12-7	Anthracene	2,100	U	
56-55-3	Benzo(a)anthracene	2,100	U	
50-32-8	Benzo(a)pyrene	907		J
205-99-2	Benzo(b)fluoranthene	1088	~~J~~	J
191-24-2	Benzo(g,h,i)perylene	2,100	~~U~~	UJ
207-08-9	Benzo(k)fluoranthene	2,100	~~U~~	UJ
218-01-9	Chrysene	1051	~~J~~	K
53-70-3	Dibenz(a,h)Anthracene	290	~~U~~	UJ
206-44-0	Fluoranthene	2331		K
86-73-7	Fluorene	2,100	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	2,100	~~U~~	UJ
91-57-6	2-Methylnaphthalene	2,100	U	
91-20-3	Naphthalene	2,100	U	
85-01-8	Phenanthrene	1235	~~J~~	K
129-00-0	Pyrene	2130		K

MW
6/4/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-12

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: _____ Mod. Ref No.: _____ SDG No : 10041405

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041405-012

Sample wt/vol: 30.02 (g/mL): g Lab File ID: 10041418.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 04/14/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 04/14/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 04/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	126.4	J	
208-96-8	Acenaphthylene	210	U	
120-12-7	Anthracene	270.3		
56-55-3	Benzo(a)anthracene	1173		
50-32-8	Benzo(a)pyrene	1100		J
205-99-2	Benzo(b)fluoranthene	1259		J
191-24-2	Benzo(g,h,i)perylene	467.6		J
207-08-9	Benzo(k)fluoranthene	930.6		J
218-01-9	Chrysene	1213		
53-70-3	Dibenz(a,h)Anthracene	137.1		J
206-44-0	Fluoranthene	1893		
86-73-7	Fluorene	210	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	595.8		J
91-57-6	2-Methylnaphthalene	210	U	
91-20-3	Naphthalene	210	U	
85-01-8	Phenanthrene	1027		
129-00-0	Pyrene	1895		

NW
6/4/10

(1) Cannot be separated from Diphenylamine

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
NR-14

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: _____ Mod. Ref No.: _____ SDG No : 10041405

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041405-013

Sample wt/vol: 30.01 (g/mL):g Lab File ID: 10041431.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 04/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/15/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	210	U	
208-96-8	Acenaphthylene	210	U	
120-12-7	Anthracene	210	U	
56-55-3	Benzo(a)anthracene	210	~~U~~	UJ
50-32-8	Benzo(a)pyrene	213		J
205-99-2	Benzo(b)fluoranthene	140.9	~~J~~	↓
191-24-2	Benzo(g,h,i)perylene	251.4		
207-08-9	Benzo(k)fluoranthene	210	~~U~~	R
218-01-9	Chrysene	210	~~U~~	UJ
53-70-3	Dibenz(a,h)Anthracene	181.4		J
206-44-0	Fluoranthene	210	U	
86-73-7	Fluorene	210	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	263.2		J
91-57-6	2-Methylnaphthalene	210	U	
91-20-3	Naphthalene	210	U	
85-01-8	Phenanthrene	210	U	
129-00-0	Pyrene	147.2	~~J~~	J

MJ
6/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-82

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: _____ Mod. Ref No.: _____ SDG No : 10041405

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041405-015

Sample wt/vol: 30 (g/mL):g Lab File ID: 10041417.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 04/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	26	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	26	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

WW 6/4/10

(1) Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-8

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: _____ Mod. Ref No : _____ SDG No.: 10041405

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041405-016

Sample wt/vol: 30.05 (g/mL):g Lab File ID: 10041421.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 27 Decanted: (Y/N) N Date Received: 04/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	704.3	
208-96-8	Acenaphthylene	230	U
120-12-7	Anthracene	895.8	J
56-55-3	Benzo(a)anthracene	2511	
50-32-8	Benzo(a)pyrene	2207	
205-99-2	Benzo(b)fluoranthene	2549	
191-24-2	Benzo(g,h,i)perylene	794.1	
207-08-9	Benzo(k)fluoranthene	1793	
218-01-9	Chrysene	2495	
53-70-3	Dibenz(a,h)Anthracene	240.2	J
86-73-7	Fluorene	474.6	
193-39-5	Indeno(1,2,3-c,d)Pyrene	1102	
91-57-6	2-Methylnaphthalene	230	U
91-20-3	Naphthalene	179.2	J
85-01-8	Phenanthrene	3358	

MW
6/4/10

13
DL

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
DUP-8

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: _____ Mod Ref No.: _____ SDG No : 10041405

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041405-016

Sample wt/vol: 30.05 (g/mL):g Lab File ID: 10041421.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 27 Decanted: (Y/N) N Date Received: 04/14/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 04/14/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 04/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
206-44-0	Fluoranthene	7166	
129-00-0	Pyrene	4928	

NW
6/4/10

(1) Cannot be separated from Diphenylamine

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-9

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code : PHASE Case No.: _____ Mod. Ref No : _____ SDG No.: 10041405

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041405-017

Sample wt/vol: 30.04 (g/mL): g Lab File ID: 10041424.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 04/14/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/14/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	2,100	U	
208-96-8	Acenaphthylene	2,100	U	
120-12-7	Anthracene	2,100	U	
56-55-3	Benzo(a)anthracene	2,100	U	
50-32-8	Benzo(a)pyrene	478		J
205-99-2	Benzo(b)fluoranthene	2,100	U	UJ
191-24-2	Benzo(g,h,i)perylene	2,100	U	UJ
207-08-9	Benzo(k)fluoranthene	2,100	U	UJ
218-01-9	Chrysene	2,100	U	
53-70-3	Dibenz(a,h)Anthracene	300	U	UJ
206-44-0	Fluoranthene	1182	J	
86-73-7	Fluorene	2,100	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	2,100	U	UJ
91-57-6	2-Methylnaphthalene	2,100	U	
91-20-3	Naphthalene	2,100	U	
85-01-8	Phenanthrene	2,100	U	
129-00-0	Pyrene	2,100	U	

NW
6/4/10

(1) Cannot be separated from Diphenylamine

ENVIRONMENTAL
Data Services, Inc.

TAL METALS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10041405

Client: ARGO Systems, Glen Burnie, MD Date: June 4, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1*	R-33	10041405-001	Soil
2*	R-44	10041405-003	Soil
3*	R-62	10041405-004	Soil
3MS*	R-62MS	10041405-004MS	Soil
3MSD*	R-62MSD	10041405-004MSD	Soil
4	R-159	10041405-006	Soil
4MS	R-159MS	10041405-006MS	Soil
4MSD	R-159MSD	10041405-006MSD	Soil
5	R-181	10041405-007	Soil
6*	R-201	10041405-009	Soil
7	NR-5	10041405-010	Soil
8	NR-11	10041405-011	Soil
9	NR-15	10041405-014	Soil
10	NR-82	10041405-015	Soil
11*	DUP-8	10041405-016	Soil
12	DUP-9	10041405-017	Soil

** - Arsenic only*

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable except the following.

Compound	%R	Qualifier	Affected Samples
(ICV) Beryllium	88%	J/UJ	4, 5, 7-10, 12
(CCV) Beryllium	86%		

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level mg/kg	Qualifier	Affected Samples
EB-1	Thallium	0.6	1.5	B	9
EB-2	Zinc	10	25	None	All >5X

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following.

MS/MD Sample ID	Compound	MS/MSD %R/RPD	Qualifier	Affected Samples
4	Antimony	70%/73%/OK	L/UL	4, 5, 7-10, 12
	Chromium	200%/178%/Ok	K	4, 5, 7-10, 12
	Lead	195%/Ok/61%	None	4X Rule
	Nickel	236%/37%/146%	None	4X Rule

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate results are summarized below.

Compound	R-62 mg/kg	DUP-8 mg/kg	RPD	Qualifier
Arsenic	3.2	4.2	27%	None

Compound	R-159 mg/kg	DUP-9 mg/kg	RPD	Qualifier
Arsenic	5.3	4.4	19%	None
Chromium	36	36	0%	None
Copper	14	16	13%	None
Lead	170	220	26%	None
Mercury	0.05	0.06	18%	None
Nickel	110	110	0%	None
Zinc	52	74	35%	None

Compound Quantitation - All criteria were met.

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
R-33

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10041405

Matrix (soil/water): SOIL Lab Sample ID: 10041405-001

Level (low/med): LOW Date Received: 04/14/2010

% Solids: 81 Batch #: 81788

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	18			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

lw 6/4/10

2

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-44

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10041405

Matrix (soil/water): SOIL Lab Sample ID: 10041405-003

Level (low/med): LOW Date Received: 04/14/2010

% Solids: 78 Batch #: 81788

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.4			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

LW 6/4/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-62 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10041405

Matrix (soil/water): SOIL Lab Sample ID: 10041405-004

Level (low/med): LOW Date Received: 04/14/2010

% Solids: 77 Batch #: 81788

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.2			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
6/4/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
R-159 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS _____ SDG 10041405

Matrix (soil/water): SOIL Lab Sample ID: 10041405-006

Level (low/med): LOW Date Received: 04/14/2010

% Solids: 83 Batch #: 81788

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.7	~~U~~		MS	UL
7440-38-2	Arsenic	5.3			MS	
7440-41-7	Beryllium	2.7	~~U~~		MS	UJ
7440-43-9	Cadmium	2.7	U		MS	
7440-47-3	Chromium	36			MS	K
7440-50-8	Copper	14			MS	
7439-92-1	Lead	170			MS	
7439-97-6	Mercury	0.05	J		MS	
7440-02-0	Nickel	110			MS	
7782-49-2	Selenium	2.7	U		MS	
7440-22-4	Silver	2.7	U		MS	
7440-28-0	Thallium	2.7	U		MS	
7440-66-6	Zinc	52			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 6/4/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
R-181

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS _____ SDG 10041405

Matrix (soil/water): SOIL Lab Sample ID: 10041405-007

Level (low/med): LOW Date Received: 04/14/2010

% Solids: 85 Batch #: 81788

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.0	~~U~~		MS	UL
7440-38-2	Arsenic	2.2			MS	
7440-41-7	Beryllium	2.0	~~U~~		MS	UJ
7440-43-9	Cadmium	2.0	U		MS	
7440-47-3	Chromium	11			MS	K
7440-50-8	Copper	6.6			MS	
7439-92-1	Lead	20			MS	
7439-97-6	Mercury	0.07	J		MS	
7440-02-0	Nickel	10			MS	
7782-49-2	Selenium	2.0	U		MS	
7440-22-4	Silver	2.0	U		MS	
7440-28-0	Thallium	0.4	U		MS	
7440-66-6	Zinc	28			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 6/4/10

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-201

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10041405

Matrix (soil/water): SOIL Lab Sample ID: 10041405-009

Level (low/med): LOW Date Received: 04/14/2010

% Solids: 81 Batch #: 81788

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.7			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 6/4/10

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-5

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS _____ SDG 10041405

Matrix (soil/water): SOIL Lab Sample ID: 10041405-010

Level (low/med): LOW Date Received: 04/14/2010

% Solids: 87 Batch #: 81788

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.6	~~U~~		MS	UL
7440-38-2	Arsenic	6.8			MS	
7440-41-7	Beryllium	2.6	~~U~~		MS	UJ
7440-43-9	Cadmium	2.6	U		MS	
7440-47-3	Chromium	76			MS	K
7440-50-8	Copper	18			MS	
7439-92-1	Lead	36			MS	
7439-97-6	Mercury	0.29			MS	
7440-02-0	Nickel	15			MS	
7782-49-2	Selenium	2.6	U		MS	
7440-22-4	Silver	2.6	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	51			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 6/4/10

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-11

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS _____ SDG 10041405

Matrix (soil/water): SOIL Lab Sample ID: 10041405-011

Level (low/med): LOW Date Received: 04/14/2010

% Solids: 81 Batch #: 81788

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.6	~~U~~		MS	UL
7440-38-2	Arsenic	4.2			MS	
7440-41-7	Beryllium	2.6	~~U~~		MS	UJ
7440-43-9	Cadmium	2.6	U		MS	
7440-47-3	Chromium	32			MS	K
7440-50-8	Copper	21			MS	
7439-92-1	Lead	130			MS	
7439-97-6	Mercury	1.1			MS	
7440-02-0	Nickel	83			MS	
7782-49-2	Selenium	2.6	U		MS	
7440-22-4	Silver	2.6	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	66			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 6/4/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-15

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS _____ SDG 10041405

Matrix (soil/water): SOIL Lab Sample ID: 10041405-014

Level (low/med): LOW Date Received: 04/14/2010

% Solids: 83 Batch #: 81788

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.4	~~U~~		MS	UL
7440-38-2	Arsenic	5.4			MS	
7440-41-7	Beryllium	2.4	~~U~~		MS	UJ
7440-43-9	Cadmium	2.4	U		MS	
7440-47-3	Chromium	30			MS	K
7440-50-8	Copper	20			MS	
7439-92-1	Lead	21			MS	
7439-97-6	Mercury	0.15			MS	
7440-02-0	Nickel	14			MS	
7782-49-2	Selenium	2.4	U		MS	
7440-22-4	Silver	2.4	U		MS	
7440-28-0	Thallium	0.25	~~B~~		MS	B
7440-66-6	Zinc	48			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

FORM IA - IN SW6020

 MW 6/4/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-82

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS _____ SDG 10041405

Matrix (soil/water): SOIL Lab Sample ID: 10041405-015

Level (low/med): LOW Date Received: 04/14/2010

% Solids: 89 Batch #: 81788

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.5	~~U~~		MS	UL
7440-38-2	Arsenic	6.2			MS	
7440-41-7	Beryllium	2.5	~~U~~		MS	UJ
7440-43-9	Cadmium	2.5	U		MS	
7440-47-3	Chromium	30			MS	K
7440-50-8	Copper	7.3			MS	
7439-92-1	Lead	11			MS	
7439-97-6	Mercury	0.10	U		MS	
7440-02-0	Nickel	5.6			MS	
7782-49-2	Selenium	2.5	U		MS	
7440-22-4	Silver	2.5	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	14			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-8

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10041405

Matrix (soil/water): SOIL Lab Sample ID: 10041405-016

Level (low/med): LOW Date Received: 04/14/2010

% Solids: 73 Batch #: 81788

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.2			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
6/4/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-9

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS _____ SDG 10041405

Matrix (soil/water): SOIL Lab Sample ID: 10041405-017

Level (low/med): LOW Date Received: 04/14/2010

% Solids: 78 Batch #: 81788

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.5	~~U~~		MS	UL
7440-38-2	Arsenic	4.4			MS	
7440-41-7	Beryllium	2.5	~~U~~		MS	UJ
7440-43-9	Cadmium	2.5	U		MS	
7440-47-3	Chromium	36			MS	K
7440-50-8	Copper	16			MS	
7439-92-1	Lead	220			MS	
7439-97-6	Mercury	0.06	J		MS	
7440-02-0	Nickel	110			MS	
7782-49-2	Selenium	2.5	U		MS	
7440-22-4	Silver	2.5	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	74			MS	

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW

FORM IA - IN 6/4/10 SW6020

ENVIRONMENTAL
Data Services, Inc.

POLYNUCLEAR AROMATIC HYDRCARBONS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10041310

Client: ARGO Systems, Glen Burnie, MD Date: June 4, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	R-24	10041310-002	Soil
2	R-27	10040906-004	Soil
2DL	R-27DL	10040906-004DL	Soil
3	R-50	10040906-005	Soil
3MS	R-50MS	10040906-005MS	Soil
3MSD	R-50MSD	10040906-005MSD	Soil
4	R-53	10041310-006	Soil
5	R-57	10041310-007	Soil
6	R-167	10041310-008	Soil
7	R-169	10041310-009	Soil
8	DUP-7	10041310-010	Soil
9	R-179	10041310-012	Soil
10	R-205	10041310-014	Soil
11	R-213	10041310-016	Soil
12	NR-24	10041310-019	Soil
12DL	NR-24DL	10041310-019DL	Soil
13	NR-81	10041310-020	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - All samples exhibited acceptable surrogate recoveries except the following.

Sample ID	Surrogate	%R	Qualifier
2	SDMC1=2-Fluorobiphenyl	102%	K - For B/N compounds except those already qualified due to IS
	SDMC2= 2-Fluorophenol	103%	
	SDMC5= Terphenyl-D14	171%	
2DL	SDMC1=2-Fluorobiphenyl	144%	K - For B/N compounds except those already qualified due to IS
	SDMC2= 2-Fluorophenol	116%	
	SDMC3= Nitrobenzene-d5	116%	
	SDMC4= Phenol-d6	116%	
	SDMC5= Terphenyl-D14	151%	
	SDMC6= 2,4,6-Tribromophenol	142%	
4	SDMC5= Terphenyl-D14	162%	None for 1 per fraction
12DL	SDMC1=2-Fluorobiphenyl	112%	None for 1 per fraction
	SDMC6= 2,4,6-Tribromophenol	104%	

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

MS/MSD Sample ID	Compound	MS/MSD %R/RPD	Qualifier
3	Benzo(a)anthracene	Ok/Ok/29%	None for RPD Alone
	Benzo(a)pyrene	Ok/127%/28%	K
	Benzo(b)fluoranthene	Ok/158%28%	K
	Benzo(k)fluoranthene	Ok/134%/31%	K
	Chrysene	Ok/Ok/32%	None for RPD Alone
	Fluoranthene	Ok/126%/56%	K
	Pyrene	Ok/158%/58%	K

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Sample ID	Internal Standard	Area Count	Qualifier
2	IS5= Chrysene-d12	Low	J/UJ - All Associated Compounds
	IS6= Perylene-d12	Low	J/UJ - All Associated Compounds
12	IS5= Chrysene-d12	Low	J/UJ - All Associated Compounds
	IS6= Perylene-d12	Low	J/UJ - All Associated Compounds
2DL	IS6= Perylene-d12	Low	J/UJ - All Associated Compounds
4	IS5= Chrysene-d12	Low	J/UJ - All Associated Compounds
	IS6= Perylene-d12	Severely Low	J/UJ - All Associated Compounds
12DL	IS6= Perylene-d12	Low	J/UJ - All Associated Compounds

Method Blank - The method blanks were free of contamination.

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level mg/kg	Qualifier	Affected Samples
EB-1	None - ND	-	-	-	-
EB-2	None - ND	-	-	-	-

Field Duplicates - Field duplicate results are summarized below.

Compound	R-50 ug/kg	DUP-7 ug/kg	RPD	Qualifier
Anthracene	225.9	230 U	NC	None
Benzo(a)anthracene	794.6	739.9	7%	None
Benzo(b)pyrene	755	747.8	1%	None
Benzo(b)fluoranthene	980.9	909.8	8%	None
Benzo(g,h,i)perylene	258.2	287.6	11%	None
Benzo(k)fluoranthene	769.1	681.8	12%	None
Chrysene	943.1	826.2	13%	None
Dibenz(a,h)anthracene	58.29	102	55%	None
Fluoranthene	1408	1383	2%	None
Indeno(1,2,3-cd)pyrene	370.2	384.5	4%	None
Phenanthrene	448.1	463.9	3%	None
Pyrene	1527	1189	25%	None

Compound Quantitation - EDS sample IDs 2 & 12 exhibited several compounds with high concentrations that required a dilution. Only the dilution results for these compounds were reported.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-24

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code : PHASE Case No.: _____ Mod Ref No.: _____ SDG No : 10041310

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041310-002

Sample wt/vol: 30.06 (g/mL):g Lab File ID: 10041314.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 04/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/13/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

MW
6/4/10

SW8270C

2

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-27

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code : PHASE Case No.: _____ Mod. Ref No.: _____ SDG No : 10041310

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041310-004

Sample wt/vol: 30.14 (g/mL):g Lab File ID: 10041339.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 26 Decanted: (Y/N) N Date Received: 04/13/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 04/13/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 04/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	606.6	
208-96-8	Acenaphthylene	899.9	
120-12-7	Anthracene	3057	
53-70-3	Dibenz(a,h)Anthracene	1935	
86-73-7	Fluorene	1363	
91-57-6	2-Methylnaphthalene	199.1	J
91-20-3	Naphthalene	182.9	J

J
K
J

NW
6/4/10

SW8270C

ZDL

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-27

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code : PHASE Case No.: _____ Mod. Ref No.: _____ SDG No.: 10041310

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041310-004

Sample wt/vol: 30.14 (g/mL):g Lab File ID: 10041339.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 26 Decanted: (Y/N) N Date Received: 04/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
56-55-3	Benzo(a)anthracene	17380		K
50-32-8	Benzo(a)pyrene	12950		J
205-99-2	Benzo(b)fluoranthene	14150		J
191-24-2	Benzo(g,h,i)perylene	14150		J
207-08-9	Benzo(k)fluoranthene	12880		J
218-01-9	Chrysene	15950		K
206-44-0	Fluoranthene	36530		K
193-39-5	Indeno(1,2,3-c,d)Pyrene	4550		J
85-01-8	Phenanthrene	15450		K
129-00-0	Pyrene	31210		K

NW
6/4/10

(1) Cannot be separated from Diphenylamine

SW8270C

3

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-50 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code : PHASE Case No : _____ Mod. Ref No : _____ SDG No.: 10041310

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041310-005

Sample wt/vol: 30.5 (g/mL):g Lab File ID: 10041336.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 28 Decanted: (Y/N) N Date Received: 04/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	230	U	
208-96-8	Acenaphthylene	230	U	
120-12-7	Anthracene	225.9	J	
56-55-3	Benzo(a)anthracene	794.6		
50-32-8	Benzo(a)pyrene	755		K
205-99-2	Benzo(b)fluoranthene	980.9		K
191-24-2	Benzo(g,h,i)perylene	258.2		
207-08-9	Benzo(k)fluoranthene	769.1		K
218-01-9	Chrysene	943.1		
53-70-3	Dibenz(a,h)Anthracene	58.29		
206-44-0	Fluoranthene	1408		K
86-73-7	Fluorene	230	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	370.2		
91-57-6	2-Methylnaphthalene	230	U	
91-20-3	Naphthalene	230	U	
85-01-8	Phenanthrene	448.1		
129-00-0	Pyrene	1527		K

hw
6/4/10

SW8270C

4

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-53

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code : PHASE Case No : _____ Mod Ref No.: _____ SDG No.: 10041310

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041310-006

Sample wt/vol: 30.06 (g/mL):g Lab File ID: 10041403.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 04/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	210	U	
208-96-8	Acenaphthylene	210	U	
120-12-7	Anthracene	210	U	
56-55-3	Benzo(a)anthracene	402.9		J
50-32-8	Benzo(a)pyrene	422.9		J
205-99-2	Benzo(b)fluoranthene	509		J
191-24-2	Benzo(g,h,i)perylene	180.5	~~J~~	J
207-08-9	Benzo(k)fluoranthene	397.5		J
218-01-9	Chrysene	429.6		J
53-70-3	Dibenz(a,h)Anthracene	54.89		J
206-44-0	Fluoranthene	627.1		
86-73-7	Fluorene	210	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	205	~~J~~	J
91-57-6	2-Methylnaphthalene	210	U	
91-20-3	Naphthalene	210	U	
85-01-8	Phenanthrene	269		
129-00-0	Pyrene	914.8		J

NW
6/4/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-57

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code : PHASE Case No.: _____ Mod. Ref No.: _____ SDG No.: 10041310

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041310-007

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10041311.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 04/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/13/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

MW 6/4/10

6

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-167

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code : PHASE Case No.: _____ Mod. Ref No : _____ SDG No : 10041310

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041310-008

Sample wt/vol: 30.05 (g/mL):g Lab File ID: 10041312.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 04/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/13/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

MW
6/4/10

(1) Cannot be separated from Diphenylamine

SW8270C

7

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-169

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code : PHASE Case No.: _____ Mod. Ref No.: _____ SDG No.: 10041310

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041310-009

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10041313.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 04/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/13/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

NW
6/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-7

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code : PHASE Case No.: _____ Mod Ref No : _____ SDG No.: 10041310

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041310-010

Sample wt/vol: 30.09 (g/mL):g Lab File ID: 10041329.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 28 Decanted: (Y/N) N Date Received: 04/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/13/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	230	U
208-96-8	Acenaphthylene	230	U
120-12-7	Anthracene	230	U
56-55-3	Benzo(a)anthracene	739.9	
50-32-8	Benzo(a)pyrene	747.8	
205-99-2	Benzo(b)fluoranthene	909.8	
191-24-2	Benzo(g,h,i)perylene	287.6	
207-08-9	Benzo(k)fluoranthene	681.8	
218-01-9	Chrysene	826.2	
53-70-3	Dibenz(a,h)Anthracene	102	
206-44-0	Fluoranthene	1383	
86-73-7	Fluorene	230	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	384.5	
91-57-6	2-Methylnaphthalene	230	U
91-20-3	Naphthalene	230	U
85-01-8	Phenanthrene	463.9	
129-00-0	Pyrene	1189	

MW
6/4/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-179

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code : PHASE Case No : _____ Mod. Ref No.: _____ SDG No.: 10041310

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041310-012

Sample wt/vol: 30.08 (g/mL):g Lab File ID: 10041316.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 04/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/13/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	231.9	
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	323.1	
56-55-3	Benzo(a)anthracene	1004	
50-32-8	Benzo(a)pyrene	916.3	
205-99-2	Benzo(b)fluoranthene	984.4	
191-24-2	Benzo(g,h,i)perylene	435.4	
207-08-9	Benzo(k)fluoranthene	677.9	
218-01-9	Chrysene	1035	
53-70-3	Dibenz(a,h)Anthracene	120	
206-44-0	Fluoranthene	2141	
86-73-7	Fluorene	162.2	J
193-39-5	Indeno(1,2,3-c,d)Pyrene	558.7	
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	1362	
129-00-0	Pyrene	2066	

MW
6/4/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-205

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code : PHASE Case No.: _____ Mod. Ref No.: _____ SDG No : 10041310

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041310-014

Sample wt/vol: 30.12 (g/mL):g Lab File ID: 10041315.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 29 Decanted: (Y/N) N Date Received: 04/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/13/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	230	U
208-96-8	Acenaphthylene	230	U
120-12-7	Anthracene	230	U
56-55-3	Benzo(a)anthracene	230	U
50-32-8	Benzo(a)pyrene	33	U
205-99-2	Benzo(b)fluoranthene	230	U
191-24-2	Benzo(g,h,i)perylene	230	U
207-08-9	Benzo(k)fluoranthene	230	U
218-01-9	Chrysene	230	U
53-70-3	Dibenz(a,h)Anthracene	33	U
206-44-0	Fluoranthene	230	U
86-73-7	Fluorene	230	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	230	U
91-57-6	2-Methylnaphthalene	230	U
91-20-3	Naphthalene	230	U
85-01-8	Phenanthrene	230	U
129-00-0	Pyrene	230	U

MW
6/4/10

(1) Cannot be separated from Diphenylamine

SW8270C

11

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-213

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code : PHASE Case No : _____ Mod Ref No.: _____ SDG No : 10041310

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041310-016

Sample wt/vol: 30.2 (g/mL):g Lab File ID: 10041321.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 04/13/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 04/13/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 04/13/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

MW
6/4/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-24

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code : PHASE Case No.: _____ Mod. Ref No.: _____ SDG No.: 10041310

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041310-019

Sample wt/vol: 30.06 (g/mL):g Lab File ID: 10041340.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 04/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
208-96-8	Acenaphthylene	200	U
191-24-2	Benzo(g,h,i)perylene	2559	J
53-70-3	Dibenz(a,h)Anthracene	918.4	J
91-57-6	2-Methylnaphthalene	785.7	
91-20-3	Naphthalene	1090	

KW
6/4/10

(1) Cannot be separated from Diphenylamine

SW8270C

12DL

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-24

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code : PHASE Case No.: _____ Mod. Ref No.: _____ SDG No.: 10041310

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041310-019

Sample wt/vol: 30.06 (g/mL):g Lab File ID: 10041340.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 04/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/14/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	4495	
120-12-7	Anthracene	7422	
56-55-3	Benzo(a)anthracene	10490	
50-32-8	Benzo(a)pyrene	7940	J
205-99-2	Benzo(b)fluoranthene	8689	J
207-08-9	Benzo(k)fluoranthene	6824	J
218-01-9	Chrysene	9683	
206-44-0	Fluoranthene	27140	
86-73-7	Fluorene	3988	
193-39-5	Indeno(1,2,3-c,d)Pyrene	3339	J
85-01-8	Phenanthrene	23920	
129-00-0	Pyrene	20470	

lw 6/4/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-81

Lab Name : PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code : PHASE Case No.: _____ Mod. Ref No.: _____ SDG No.: 10041310

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10041310-020

Sample wt/vol: 30.07 (g/mL): g Lab File ID: 10041320.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 04/13/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/13/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/13/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

LW
6/4/10

SW8270C

ENVIRONMENTAL
Data Services, Inc.

TAL METALS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10041310

Client: ARGO Systems, Glen Burnie, MD Date: June 4, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	R-16	10041310-001	Soil
2*	R-24	10041310-002	Soil
3*	R-26	10040906-003	Soil
4	R-50	10040906-005	Soil
4MS	R-50MS	10040906-005MS	Soil
4MSD	R-50MSD	10040906-005MSD	Soil
5*	R-57	10041310-007	Soil
6	R-169	10041310-009	Soil
7	DUP-7	10041310-010	Soil
8*	R-178	10041310-011	Soil
9*	R-179	10041310-012	Soil
10*	R-191	10041310-013	Soil
11*	R-21	10041310-015	Soil
12	R-213	10041310-016	Soil
13*	R-215	10041310-017	Soil
14*	R-218	10041310-018	Soil
15*	NR-24	10041310-019	Soil
16	NR-81	10041310-020	Soil

** - Arsenic only*

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks exhibited the following contamination.

Compound	Conc. mg/kg	Action Level mg/kg	Qualifier	Affected Samples
Zinc	6.8	34	B	6, 12, 16

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level mg/kg	Qualifier	Affected Samples
EB-1	Thallium	0.6	1.5	B	4
EB-2	Zinc	10	25	None	See MB

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following.

MS/MD Sample ID	Compound	MS/MSD %R/RPD	Qualifier	Affected Samples
4	Chromium	0%/0%/Ok	L/R	1, 4, 6, 7, 12, 16
	Copper	0%/132%/200%		
	Lead	51%/168%/107%	L/UL	
	Nickel	0%/10%/NC	L/R	
	Zinc	43%/10%/200%	L/UL	1, 4, 7

LCS - The LCS samples exhibited acceptable %R values except the following.

LCS ID	Compound	%R	Qualifier	Affected Samples
LCS	Zinc	60%	None	See MB/MS/MSD

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values except the following.

ICP Sample ID	Compound	%D	Qualifier	Affected Samples
4	Copper	13%	None	See MS/MSD

Field Duplicates - Field duplicate results are summarized below.

Compound	R-50 mg/kg	DUP-7 mg/kg	RPD	Qualifier
Arsenic	7.5	5.2	36%	None

Compound	R-50 mg/kg	DUP-7 mg/kg	RPD	Qualifier
Chromium	50	48	4%	None
Copper	270	350	26%	None
Lead	93	72	25%	None
Nickel	130	58	77%	None
Thallium	0.42	0.6	35%	None
Zinc	160	130	21%	None
Mercury	0.16	0.12	29%	None

Compound Quantitation - All criteria were met.

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-16

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10041310

Matrix (soil/water): SOIL Lab Sample ID: 10041310-001

Level (low/med): LOW Date Received: 04/13/2010

% Solids: 70 Batch #: 81763

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.1	U		MS	
7440-38-2	Arsenic	8.1			MS	
7440-41-7	Beryllium	3.1	U		MS	
7440-43-9	Cadmium	3.1	U		MS	
7440-47-3	Chromium	20		N	MS	L
7440-50-8	Copper	16		N	MS	L
7439-92-1	Lead	53		N	MS	L
7439-97-6	Mercury	0.09	J		MS	
7440-02-0	Nickel	36		N	MS	L
7782-49-2	Selenium	3.1	U		MS	
7440-22-4	Silver	3.1	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	62		N	MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

lw 6/4/10

FORM IA - IN SW6020

2

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-24

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10041310

Matrix (soil/water): SOIL Lab Sample ID: 10041310-002

Level (low/med): LOW Date Received: 04/13/2010

% Solids: 83 Batch #: 81763

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.8			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
6/4/10

FORM IA - IN SW6020

3

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-26

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10041310

Matrix (soil/water): SOIL Lab Sample ID: 10041310-003

Level (low/med): LOW Date Received: 04/13/2010

% Solids: 82 Batch #: 81763

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.7			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
6/4/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
R-50 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1436209
Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No.: 10041310
Matrix (soil/water): SOIL Lab Sample ID: 10041310-005
Level (low/med): LOW Date Received: 04/13/2010
% Solids: 72 Batch #: 81763

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.2	U		MS	
7440-38-2	Arsenic	7.5			MS	
7440-41-7	Beryllium	3.2	U		MS	
7440-43-9	Cadmium	3.2	U		MS	
7440-47-3	Chromium	50		~~N~~	MS	L
7440-50-8	Copper	270		~~N~~	MS	L
7439-92-1	Lead	93		~~N~~	MS	L
7439-97-6	Mercury	0.16			MS	
7440-02-0	Nickel	130		~~N~~	MS	L
7782-49-2	Selenium	3.2	U		MS	
7440-22-4	Silver	3.2	U		MS	
7440-28-0	Thallium	0.42	~~Y~~		MS	B
7440-66-6	Zinc	160		~~N~~	MS	L

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

NW
6/4/10

5

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-57

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10041310

Matrix (soil/water): SOIL Lab Sample ID: 10041310-007

Level (low/med): LOW Date Received: 04/13/2010

% Solids: 82 Batch #: 81763

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.6			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
6/4/10

FORM IA - IN SW6020

6

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-169

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10041310

Matrix (soil/water): SOIL Lab Sample ID: 10041310-009

Level (low/med): LOW Date Received: 04/13/2010

% Solids: 81 Batch #: 81763

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.6	U		MS	
7440-38-2	Arsenic	4.2			MS	
7440-41-7	Beryllium	2.6	U		MS	
7440-43-9	Cadmium	2.6	U		MS	
7440-47-3	Chromium	23		~~N~~	MS	L
7440-50-8	Copper	7.9		~~N~~	MS	L
7439-92-1	Lead	17		~~N~~	MS	L
7439-97-6	Mercury	0.1	U		MS	
7440-02-0	Nickel	11		~~N~~	MS	L
7782-49-2	Selenium	2.6	U		MS	
7440-22-4	Silver	2.6	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	33		~~N~~	MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
6/4/10

7

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-7

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code: PHASE Case No.: _____ NRAS _____ SDG 10041310

Matrix (soil/water): SOIL Lab Sample ID: 10041310-010

Level (low/med): LOW Date Received: 04/13/2010

% Solids: 72 Batch #: 81763

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.8	U		MS	
7440-38-2	Arsenic	5.2			MS	
7440-41-7	Beryllium	2.8	U		MS	
7440-43-9	Cadmium	2.8	U		MS	
7440-47-3	Chromium	48		~~N~~	MS	L
7440-50-8	Copper	350		~~N~~	MS	L
7439-92-1	Lead	72		~~N~~	MS	L
7439-97-6	Mercury	0.12			MS	
7440-02-0	Nickel	58		~~N~~	MS	L
7782-49-2	Selenium	2.8	U		MS	
7440-22-4	Silver	2.8	U		MS	
7440-28-0	Thallium	0.6	U		MS	
7440-66-6	Zinc	130		~~N~~	MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 6/4/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
R-178

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10041310

Matrix (soil/water): SOIL Lab Sample ID: 10041310-011

Level (low/med): LOW Date Received: 04/13/2010

% Solids: 82 Batch #: 81763

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.0			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

hw
6/4/10

9

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-179

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10041310

Matrix (soil/water): SOIL Lab Sample ID: 10041310-012

Level (low/med): LOW Date Received: 04/13/2010

% Solids: 82 Batch #: 81763

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.2			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
6/4/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
R-191

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No.: 10041310

Matrix (soil/water): SOIL Lab Sample ID: 10041310-013

Level (low/med): LOW Date Received: 04/13/2010

% Solids: 80 Batch #: 81763

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.6			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

KW
6/4/10

11

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-211

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10041310

Matrix (soil/water): SOIL Lab Sample ID: 10041310-015

Level (low/med): LOW Date Received: 04/13/2010

% Solids: 87 Batch #: 81763

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.3			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW 6/4/10

FORM IA - IN SW6020

12

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-213

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No.: 10041310

Matrix (soil/water): SOIL Lab Sample ID: 10041310-016

Level (low/med): LOW Date Received: 04/13/2010

% Solids: 87 Batch #: 81763

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.4	U		MS	
7440-38-2	Arsenic	5.7			MS	
7440-41-7	Beryllium	2.4	U		MS	
7440-43-9	Cadmium	2.4	U		MS	
7440-47-3	Chromium	25		N	MS	L
7440-50-8	Copper	5.8		N	MS	L
7439-92-1	Lead	9.4		N	MS	L
7439-97-6	Mercury	0.07	J		MS	
7440-02-0	Nickel	5.2		N	MS	L
7782-49-2	Selenium	2.4	U		MS	
7440-22-4	Silver	2.4	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	14		N	MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 6/4/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-215

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10041310

Matrix (soil/water): SOIL Lab Sample ID: 10041310-017

Level (low/med): LOW Date Received: 04/13/2010

% Solids: 82 Batch #: 81763

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.7			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
6/4/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
R-218

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10041310

Matrix (soil/water): SOIL Lab Sample ID: 10041310-018

Level (low/med): LOW Date Received: 04/13/2010

% Solids: 84 Batch #: 81763

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.4			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
6/4/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-24

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10041310

Matrix (soil/water): SOIL Lab Sample ID: 10041310-019

Level (low/med): LOW Date Received: 04/13/2010

% Solids: 84 Batch #: 81763

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.1			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW 6/4/10

FORM IA - IN SW6020

16

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-81

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1436209

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10041310

Matrix (soil/water): SOIL Lab Sample ID: 10041310-020

Level (low/med): LOW Date Received: 04/13/2010

% Solids: 86 Batch #: 81763

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.3	U		MS	
7440-38-2	Arsenic	4.7			MS	
7440-41-7	Beryllium	2.3	U		MS	
7440-43-9	Cadmium	2.3	U		MS	
7440-47-3	Chromium	26		N	MS	L
7440-50-8	Copper	8.6		N	MS	L
7439-92-1	Lead	14		N	MS	L
7439-97-6	Mercury	0.07	J		MS	
7440-02-0	Nickel	9.8		N	MS	L
7782-49-2	Selenium	2.3	U		MS	
7440-22-4	Silver	2.3	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	25		N	MS	B

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

hw 6/4/10

FORM IA - IN SW6020

ENVIRONMENTAL
Data Services, Inc.

POLYNUCLEAR AROMATIC HYDRCARBONS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10040906

Client: ARGO Systems, Glen Burnie, MD Date: June 3, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	EB-1	10040906-001	Water
2	EB-2	10040906-002	Water

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 7 days for water samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level mg/kg	Qualifier	Affected Samples
EB-1	None - ND	-	-	-	-
EB-2	None - ND	-	-	-	-

Field Duplicates - Field duplicate samples were not analyzed.

Compound Quantitation - No discrepancies were identified.

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BALTIMORE, MD 21228
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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 10040906

ARGO Systems, Glen Burnie, MD

April 23, 2010

Project Name: NTCB
Project Location: Port Deposit
Project ID: 1462309

REVISED

Sample ID: EB-1 **Date/Time Sampled: 04/09/2010 08:00** **PSS Sample ID: 10040906-001**
Matrix: WATER **Date/Time Received: 04/09/2010 11:15**

Polyaromatic Hydrocarbons (PAHs) Analytical Method: SW846 8270C Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:13	1014
Acenaphthylene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:13	1014
Anthracene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:13	1014
Benzo(a)anthracene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:13	1014
Benzo(a)pyrene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:13	1014
Benzo(b)fluoranthene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:13	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:13	1014
Benzo(k)fluoranthene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:13	1014
Chrysene	ND	ug/L	2		1	1	04/12/10	04/12/10 14:13	1014
Dibenz(a,h)Anthracene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:13	1014
Fluoranthene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:13	1014
Fluorene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:13	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:13	1014
2-Methylnaphthalene	ND	ug/L	2		1	1	04/12/10	04/12/10 14:13	1014
Naphthalene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:13	1014
Phenanthrene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:13	1014
Pyrene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:13	1014

MW 6/3/10

 Revised Ver 1.000

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PHASE SEPARATION SCIENCE, INC.

2.

CERTIFICATE OF ANALYSIS

No: 10040906
ARGO Systems, Glen Burnie, MD
April 23, 2010

Project Name: NTCB
Project Location: Port Deposit
Project ID: 1462309

REVISED

Sample ID: EB-2 **Date/Time Sampled: 04/09/2010 08:00** **PSS Sample ID: 10040906-002**
Matrix: WATER **Date/Time Received: 04/09/2010 11:15**

Polyaromatic Hydrocarbons (PAHs) Analytical Method: SW846 8270C Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:42	1014
Acenaphthylene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:42	1014
Anthracene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:42	1014
Benzo(a)anthracene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:42	1014
Benzo(a)pyrene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:42	1014
Benzo(b)fluoranthene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:42	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:42	1014
Benzo(k)fluoranthene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:42	1014
Chrysene	ND	ug/L	2		1	1	04/12/10	04/12/10 14:42	1014
Dibenz(a,h)Anthracene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:42	1014
Fluoranthene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:42	1014
Fluorene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:42	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:42	1014
2-Methylnaphthalene	ND	ug/L	2		1	1	04/12/10	04/12/10 14:42	1014
Naphthalene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:42	1014
Phenanthrene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:42	1014
Pyrene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:42	1014

lew 6/3/10

Revised Ver 1.000

ENVIRONMENTAL
Data Services, Inc.

TAL METALS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10040906

Client: ARGO Systems, Glen Burnie, MD Date: June 3, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	EB-1	10040906-001	Water
1MS	EB-1MS	10040906-001MS	Water
1MSD	EB-1MSD	10040906-001MSD	Water
2	EB-2	10040906-002	Water

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level mg/kg	Qualifier	Affected Samples
EB-1	Thallium	0.6	1.5	-	Applied to samples in 10040606
EB-2	Zinc	10	25	-	

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following.

MS/MD Sample ID	Compound	MS/MSD %R/RPD	Qualifier	Affected Samples
1	Mercury	64%/70%/Ok	L/UL	All Samples

LCS - The LCS samples exhibited acceptable %R values except the following.

LCS ID	Compound	%R	Qualifier	Affected Samples
LCS	Mercury	63%	None	See MS/MSD

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate samples were not analyzed.

Compound Quantitation - All criteria were met.

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 10040906
ARGO Systems, Glen Burnie, MD
April 23, 2010

Project Name: NTCB
Project Location: Port Deposit
Project ID: 1462309

REVISED

Sample ID: EB-1 **Date/Time Sampled: 04/09/2010 08:00** **PSS Sample ID: 10040906-001**
Matrix: WATER **Date/Time Received: 04/09/2010 11:15**

PP Metals Analytical Method: SW846 6020A Preparation Method: SW846 3010A

	Result	Units		RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L		1 0		1	0 5	04/14/10	04/14/10 18:11	1034
Arsenic	ND	ug/L		1 0		1	0 5	04/14/10	04/14/10 18:11	1034
Beryllium	ND	ug/L		0 5		1	0 5	04/14/10	04/14/10 18:11	1034
Cadmium	ND	ug/L		1 0		1	0 5	04/14/10	04/14/10 18:11	1034
Chromium	ND	ug/L		1 0		1	0 5	04/14/10	04/14/10 18:11	1034
Copper	ND	ug/L		1 0		1	0 5	04/14/10	04/14/10 18:11	1034
Lead	ND	ug/L		1 0		1	0 5	04/14/10	04/14/10 18:11	1034
Mercury	ND	ug/L	UL	0.2		1	0 1	04/14/10	04/14/10 18:11	1034
Nickel	ND	ug/L		1.0		1	0 5	04/14/10	04/14/10 18:11	1034
Selenium	ND	ug/L		1.0		1	0 5	04/14/10	04/14/10 18:11	1034
Silver	ND	ug/L		1.0		1	0 5	04/14/10	04/14/10 18:11	1034
Thallium	**0.6**	ug/L		1.0	J	1	0 5	04/14/10	04/14/10 18:11	1034
Zinc	ND	ug/L		20		1	10	04/14/10	04/14/10 18:11	1034

aW 6/3/10

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2

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PHASE SEPARATION SCIENCE, INC.

1989 - 20 YEARS - 2009 ANALYTICAL CHEMISTRY ENVIRONMENTAL SCIENCE EXCEEDING THE STANDARD

CERTIFICATE OF ANALYSIS

No: 10040906

ARGO Systems, Glen Burnie, MD

April 23, 2010

Project Name: NTCB
Project Location: Port Deposit
Project ID: 1462309

REVISED

Sample ID: EB-2 **Date/Time Sampled: 04/09/2010 08:00** **PSS Sample ID: 10040906-002**
Matrix: WATER **Date/Time Received: 04/09/2010 11:15**

PP Metals — Analytical Method: SW846 6020A — Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1 0		1	0 5	04/14/10	04/14/10 18:42	1034
Arsenic	ND	ug/L	1 0		1	0 5	04/14/10	04/14/10 18:42	1034
Beryllium	ND	ug/L	0 5		1	0.5	04/14/10	04/14/10 18:42	1034
Cadmium	ND	ug/L	1.0		1	0.5	04/14/10	04/14/10 18:42	1034
Chromium	ND	ug/L	1 0		1	0.5	04/14/10	04/14/10 18:42	1034
Copper	ND	ug/L	1.0		1	0 5	04/14/10	04/14/10 18:42	1034
Lead	ND	ug/L	1.0		1	0.5	04/14/10	04/14/10 18:42	1034
Mercury	~~ND~~	ug/L UL	0 2		1	0 1	04/14/10	04/14/10 18:42	1034
Nickel	ND	ug/L	1.0		1	0 5	04/14/10	04/14/10 18:42	1034
Selenium	ND	ug/L	1.0		1	0 5	04/14/10	04/14/10 18:42	1034
Silver	ND	ug/L	1.0		1	0 5	04/14/10	04/14/10 18:42	1034
Thallium	ND	ug/L	1 0		1	0 5	04/14/10	04/14/10 18:42	1034
Zinc	**10**	ug/L	20	J	1	10	04/14/10	04/14/10 18:42	1034

 MW 6/3/10 Revised Ver. 1.000

ENVIRONMENTAL
Data Services, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS

USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10040905

Client: ARGO Systems, Glen Burnie, MD Date: August 13, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	R-210	10040905-001	Soil
2	NR-10	10040905-002	Soil
3	R-46	10040905-004	Soil
4	R-202	10040905-005	Soil
5	R-207	10040905-006	Soil
6	R-219	10040905-007	Soil
7	DUP-5	10040905-009	Soil
8	DUP-6	10040905-010	Soil
9	R-3	10040905-011	Soil
10	R-18	10040905-012	Soil
11	R-19	10040905-013	Soil
12	R-17	10040905-014	Soil
13	R-30	10040905-015	Soil
14	R-31	10040905-017	Soil
15	R-35	10040905-018	Soil
15MS	R-35MS	10040905-018MS	Soil
15MSD	R-35MSD	10040905-018MSD	Soil
16	R-9	10040905-022	Soil
17	R-20	10040905-023	Soil
18	R-8	10040905-024	Soil
19	R-223	10040905-026	Soil
20	R-224	10040905-027	Soil
21	R-226	10040905-028	Soil
21MS	R-226MS	10040905-028MS	Soil
21MSD	R-226MSD	10040905-028MSD	Soil
22	R-229	10040905-030	Soil

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - All samples exhibited acceptable surrogate recoveries except the following.

Sample ID	Surrogate	%R	Qualifier
7	S1=2Fluorobiphenyl	115%	None for only 1 out per fraction

MS/MSD - The MS/MSD samples exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria except the following.

Sample ID	Internal Standard	Area Count	Qualifier
1	IS6= Perylene-d12	Low	J/UJ- associated compounds
5	IS6= Perylene-d12	Low	J/UJ- associated compounds
10	IS6= Perylene-d12	Low	J/UJ- associated compounds
12	IS6= Perylene-d12	Low	J/UJ- associated compounds
16	IS6= Perylene-d12	Low	J/UJ- associated compounds
17	IS6= Perylene-d12	Low	J/UJ- associated compounds

Method Blank - The method blanks were free of contamination.

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level ug/L	Qualifier	Affected Samples
EB-3	None-ND	-	-	-	-
EB-4	None-ND	-	-	-	-

Field Duplicates - Field duplicate results are summarized below.

Compound	R-9 ug/kg	DUP-5 ug/kg	RPD	Qualifier
Acenaphthene	1500	1300	14%	None
Anthracene	7300	5800	23%	None
Benzo(a)anthracene	32000	28000	13%	None
Benzo(a)pyrene	28000	25000	11%	None
Benzo(b)fluoranthene	28000	32000	13%	None
Benzo(g,h,i)perylene	9100	10000	9%	None
Benzo(k)fluoranthene	25000	20000	22%	None
Chrysene	31000	28000	10%	None
Dibenz(a,h)Anthracene	3300	3100	6%	None
Fluoranthene	70000	77000	10%	None
Fluorene	2900	2300	23%	None
Indeno(1,2,3-c,d)Pyrene	13000	14000	7%	None
Phenanthrene	30000	26000	14%	None
Pyrene	48000	50000	4%	None

Compound	R-35 ug/kg	DUP-6 ug/kg	RPD	Qualifier
Benzo(a)pyrene	93	92	1%	None
Dibenz(a,h)Anthracene	60	30 U	NC	None
Fluoranthene	130	170	27%	None
Pyrene	170	170	0%	None

Compound Quantitation - Several samples were analyzed at 10X and 50X dilutions due to high concentrations of target compounds.

1

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-210

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81712 Mod Ref No.: _____ SDG No.: 10040905

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10040905-001

Sample wt/vol: 30.04 (g/mL):g Lab File ID: 10040920.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 04/09/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/09/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/09/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	200	U	
208-96-8	Acenaphthylene	200	U	
120-12-7	Anthracene	200	U	
56-55-3	Benzo(a)anthracene	200	U	
50-32-8	Benzo(a)pyrene	56		J
205-99-2	Benzo(b)fluoranthene	200	~~U~~	UJ
191-24-2	Benzo(g,h,i)perylene	200	~~U~~	UJ
207-08-9	Benzo(k)fluoranthene	200	~~U~~	UJ
218-01-9	Chrysene	200	U	
53-70-3	Dibenz(a,h)Anthracene	51		J
206-44-0	Fluoranthene	200	U	
86-73-7	Fluorene	200	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	~~U~~	UJ
91-57-6	2-Methylnaphthalene	200	U	
91-20-3	Naphthalene	200	U	
85-01-8	Phenanthrene	200	U	
129-00-0	Pyrene	200	U	

MW 8/13/10

(1) Cannot be separated from Diphenylamine

SW8270C

2

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
NR-10

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81714 Mod Ref No : _____ SDG No : 10040905

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10040905-002

Sample wt/vol: 30.2 (g/mL):g Lab File ID: 10041015.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 04/09/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 04/09/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 04/10/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	48	
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	120	J
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	120	J

MW
8/13/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-46

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81712 Mod Ref No.: _____ SDG No.: 10040905

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10040905-004

Sample wt/vol: 30.09 (g/mL):g Lab File ID: 10040921.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 04/09/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/09/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/09/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	28	U
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

mw
8/13/10

(1) Cannot be separated from Diphenylamine

4

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-202

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81714 Mod Ref No : _____ SDG No.: 10040905

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10040905-005

Sample wt/vol: 30.14 (g/mL):g Lab File ID: 10041016.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 04/09/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/09/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/10/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	210	
56-55-3	Benzo(a)anthracene	550	
50-32-8	Benzo(a)pyrene	440	
205-99-2	Benzo(b)fluoranthene	450	
191-24-2	Benzo(g,h,i)perylene	190	J
207-08-9	Benzo(k)fluoranthene	370	
218-01-9	Chrysene	580	
53-70-3	Dibenz(a,h)Anthracene	58	
206-44-0	Fluoranthene	1,100	
86-73-7	Fluorene	130	J
193-39-5	Indeno(1,2,3-c,d)Pyrene	220	
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	990	
129-00-0	Pyrene	1,200	

MW
8/13/10

SW8270C

5

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-207

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81714 Mod. Ref No.: _____ SDG No.: 10040905

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10040905-006

Sample wt/vol: 30.06 (g/mL):g Lab File ID: 10041020.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 27 Decanted: (Y/N) N Date Received: 04/09/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/09/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	230	U	
208-96-8	Acenaphthylene	230	U	
120-12-7	Anthracene	230	U	
56-55-3	Benzo(a)anthracene	230	U	
50-32-8	Benzo(a)pyrene	32	~~U~~	UJ
205-99-2	Benzo(b)fluoranthene	230	U	
191-24-2	Benzo(g,h,i)perylene	230	U	
207-08-9	Benzo(k)fluoranthene	230	U	
218-01-9	Chrysene	230	U	
53-70-3	Dibenz(a,h)Anthracene	32	~~U~~	UJ
206-44-0	Fluoranthene	230	U	
86-73-7	Fluorene	230	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	230	~~U~~	UJ
91-57-6	2-Methylnaphthalene	230	U	
91-20-3	Naphthalene	230	U	
85-01-8	Phenanthrene	230	U	
129-00-0	Pyrene	230	U	

NW
8/13/10

6

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-219

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81712 Mod. Ref No.: _____ SDG No : 10040905

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10040905-007

Sample wt/vol: 30.13 (g/mL):g Lab File ID: 10040928.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 04/09/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 04/09/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 04/09/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	200	U
208-96-8	Acenaphthylene	200	U
120-12-7	Anthracene	200	U
56-55-3	Benzo(a)anthracene	200	U
50-32-8	Benzo(a)pyrene	28	U
205-99-2	Benzo(b)fluoranthene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
218-01-9	Chrysene	200	U
53-70-3	Dibenz(a,h)Anthracene	29	
206-44-0	Fluoranthene	200	U
86-73-7	Fluorene	200	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	200	U
91-57-6	2-Methylnaphthalene	200	U
91-20-3	Naphthalene	200	U
85-01-8	Phenanthrene	200	U
129-00-0	Pyrene	200	U

MW
8/13/10

SW8270C

7

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-5

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81714 Mod. Ref No : _____ SDG No : 10040905

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10040905-009

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10041021.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 04/09/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/09/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	1,300	J
208-96-8	Acenaphthylene	2,100	U
120-12-7	Anthracene	5,800	
56-55-3	Benzo(a)anthracene	28,000	
50-32-8	Benzo(a)pyrene	25,000	
205-99-2	Benzo(b)fluoranthene	32,000	
191-24-2	Benzo(g,h,i)perylene	10,000	
207-08-9	Benzo(k)fluoranthene	20,000	
218-01-9	Chrysene	28,000	
53-70-3	Dibenz(a,h)Anthracene	3,100	
86-73-7	Fluorene	2,300	
193-39-5	Indeno(1,2,3-c,d)Pyrene	14,000	
91-57-6	2-Methylnaphthalene	2,100	U
91-20-3	Naphthalene	2,100	U
85-01-8	Phenanthrene	26,000	

nw
8/13/10

SW8270C

7

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO

DUP-5

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81714 Mod. Ref No.: _____ SDG No.: 10040905

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10040905-009

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10041021.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 04/09/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/09/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 50.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
206-44-0	Fluoranthene	77,000	
129-00-0	Pyrene	50,000	

hew
8/13/10

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
DUP-6

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81714 Mod Ref No.: _____ SDG No.: 10040905

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10040905-010

Sample wt/vol: 30.05 (g/mL):g Lab File ID: 10041017.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23 Decanted: (Y/N) N Date Received: 04/09/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/09/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	220	U
208-96-8	Acenaphthylene	220	U
120-12-7	Anthracene	220	U
56-55-3	Benzo(a)anthracene	220	U
50-32-8	Benzo(a)pyrene	92	
205-99-2	Benzo(b)fluoranthene	220	U
191-24-2	Benzo(g,h,i)perylene	220	U
207-08-9	Benzo(k)fluoranthene	220	U
218-01-9	Chrysene	220	U
53-70-3	Dibenz(a,h)Anthracene	30	U
206-44-0	Fluoranthene	170	J
86-73-7	Fluorene	220	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	220	U
91-57-6	2-Methylnaphthalene	220	U
91-20-3	Naphthalene	220	U
85-01-8	Phenanthrene	220	U
129-00-0	Pyrene	170	J

NW
8/13/10

9

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-3

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81714 Mod Ref No.: _____ SDG No.: 10040905

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10040905-011

Sample wt/vol: 30.17 (g/mL):g Lab File ID: 10041018.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 04/09/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/09/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	36	
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

LW
8/13/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-18

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81714 Mod. Ref No : _____ SDG No : 10040905

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10040905-012

Sample wt/vol: 30.21 (g/mL):g Lab File ID: 10041019.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 04/09/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/09/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	200	U	
208-96-8	Acenaphthylene	200	U	
120-12-7	Anthracene	200	U	
56-55-3	Benzo(a)anthracene	600		
50-32-8	Benzo(a)pyrene	540		J
205-99-2	Benzo(b)fluoranthene	540		J
191-24-2	Benzo(g,h,i)perylene	170	~~J~~	J
207-08-9	Benzo(k)fluoranthene	510		J
218-01-9	Chrysene	640		
53-70-3	Dibenz(a,h)Anthracene	55		J
206-44-0	Fluoranthene	1,200		
86-73-7	Fluorene	200	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	240		J
91-57-6	2-Methylnaphthalene	200	U	
91-20-3	Naphthalene	200	U	
85-01-8	Phenanthrene	780		
129-00-0	Pyrene	1,300		

NW
8/13/10

11

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-19

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81712 Mod Ref No.: _____ SDG No : 10040905

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10040905-013

Sample wt/vol: 30.06 (g/mL):g Lab File ID: 10040923.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 04/09/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/09/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/09/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	30	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	30	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

kw
8/13/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-17

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81712 Mod Ref No : _____ SDG No.: 10040905

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10040905-014

Sample wt/vol: 30.15 (g/mL):g Lab File ID: 10040924.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 04/09/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/09/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/09/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q	
83-32-9	Acenaphthene	210	U	
208-96-8	Acenaphthylene	210	U	
120-12-7	Anthracene	210	U	
56-55-3	Benzo(a)anthracene	210	U	
50-32-8	Benzo(a)pyrene	34		J
205-99-2	Benzo(b)fluoranthene	210	~~U~~	UJ
191-24-2	Benzo(g,h,i)perylene	210	~~U~~	↓
207-08-9	Benzo(k)fluoranthene	210	~~U~~	↓
218-01-9	Chrysene	210	U	
53-70-3	Dibenz(a,h)Anthracene	29	~~U~~	UJ
206-44-0	Fluoranthene	210	U	
86-73-7	Fluorene	210	U	
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	~~U~~	UJ
91-57-6	2-Methylnaphthalene	210	U	
91-20-3	Naphthalene	210	U	
85-01-8	Phenanthrene	210	U	
129-00-0	Pyrene	210	U	

lw
8/13/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-30

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81714 Mod. Ref No : _____ SDG No.: 10040905

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10040905-015

Sample wt/vol: 30.08 (g/mL):g Lab File ID: 10041022.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 04/09/2010

Concentrated Extract Volume: 1 (μ L) Date Extracted: 04/09/2010

Injection Volume: _____ (μ L) GPC Factor: 1.000 Date Analyzed: 04/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	2,000	U
208-96-8	Acenaphthylene	2,000	U
120-12-7	Anthracene	2,000	U
56-55-3	Benzo(a)anthracene	2,000	U
50-32-8	Benzo(a)pyrene	650	
205-99-2	Benzo(b)fluoranthene	2,000	U
191-24-2	Benzo(g,h,i)perylene	2,000	U
207-08-9	Benzo(k)fluoranthene	2,000	U
218-01-9	Chrysene	2,000	U
53-70-3	Dibenz(a,h)Anthracene	280	U
206-44-0	Fluoranthene	1,800	J
86-73-7	Fluorene	2,000	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	2,000	U
91-57-6	2-Methylnaphthalene	2,000	U
91-20-3	Naphthalene	2,000	U
85-01-8	Phenanthrene	1,700	J
129-00-0	Pyrene	1,700	J

NW
8/13/10

(1) Cannot be separated from Diphenylamine

SW8270C

14

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-31

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81712 Mod Ref No : _____ SDG No.: 10040905

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10040905-017

Sample wt/vol: 30.06 (g/mL):g Lab File ID: 10040922.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 04/09/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/09/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/09/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

MW
8/13/10

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-35 MS/MSD

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81712 Mod. Ref No.: _____ SDG No.: 10040905

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10040905-018

Sample wt/vol: 30.01 (g/mL):g Lab File ID: 10040926.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 04/09/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/09/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/09/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	93	
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	60	
206-44-0	Fluoranthene	130	J
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	170	J

mco
8/13/10

(1) Cannot be separated from Diphenylamine

16

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-9

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81714 Mod. Ref No.: _____ SDG No.: 10040905

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10040905-022

Sample wt/vol: 30.02 (g/mL):g Lab File ID: 10041023.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) CLEAR Date Received: 04/09/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/10/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	1,500	J
208-96-8	Acenaphthylene	2,100	U
120-12-7	Anthracene	7,300	
56-55-3	Benzo(a)anthracene	32,000	
50-32-8	Benzo(a)pyrene	28,000	J
191-24-2	Benzo(g,h,i)perylene	9,100	↓
207-08-9	Benzo(k)fluoranthene	25,000	
218-01-9	Chrysene	31,000	
53-70-3	Dibenz(a,h)Anthracene	3,300	J
86-73-7	Fluorene	2,900	
193-39-5	Indeno(1,2,3-c,d)Pyrene	13,000	J
91-57-6	2-Methylnaphthalene	2,100	U
91-20-3	Naphthalene	2,100	U
85-01-8	Phenanthrene	30,000	

nw
8/13/10

SW8270C

16

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-9

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81714 Mod Ref No.: _____ SDG No : 10040905

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10040905-022

Sample wt/vol: 30.02 (g/mL):g Lab File ID: 10041023.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) CLEAR Date Received: 04/09/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/10/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 50.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
205-99-2	Benzo(b)fluoranthene	28,000	J
206-44-0	Fluoranthene	70,000	
129-00-0	Pyrene	48,000	

MW
8/13/10

(1) Cannot be separated from Diphenylamine

SW8270C

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-20

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81714 Mod. Ref No.: _____ SDG No : 10040905

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10040905-023

Sample wt/vol: 30.1 (g/mL):g Lab File ID: 10041024.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) CLEAR Date Received: 04/09/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/10/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/11/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	2,100	U
208-96-8	Acenaphthylene	2,100	U
120-12-7	Anthracene	2,100	U
56-55-3	Benzo(a)anthracene	2,100	U
50-32-8	Benzo(a)pyrene	420	
205-99-2	Benzo(b)fluoranthene	2,100	U
191-24-2	Benzo(g,h,i)perylene	2,100	U
207-08-9	Benzo(k)fluoranthene	2,100	U
218-01-9	Chrysene	2,100	U
53-70-3	Dibenz(a,h)Anthracene	290	U
206-44-0	Fluoranthene	2,100	U
86-73-7	Fluorene	2,100	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	2,100	U
91-57-6	2-Methylnaphthalene	2,100	U
91-20-3	Naphthalene	2,100	U
85-01-8	Phenanthrene	2,100	U
129-00-0	Pyrene	2,100	U

MW 8/13/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-8

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81714 Mod Ref No : _____ SDG No : 10040905

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10040905-024

Sample wt/vol: 30.05 (g/mL):g Lab File ID: 10041014.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) CLEAR Date Received: 04/09/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/10/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/10/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	230	
56-55-3	Benzo(a)anthracene	580	
50-32-8	Benzo(a)pyrene	380	
205-99-2	Benzo(b)fluoranthene	370	
191-24-2	Benzo(g,h,i)perylene	130	J
207-08-9	Benzo(k)fluoranthene	350	
218-01-9	Chrysene	540	
53-70-3	Dibenz(a,h)Anthracene	54	
206-44-0	Fluoranthene	980	
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	180	J
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	920	
129-00-0	Pyrene	980	

lw
8/13/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO
R-223

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81714 Mod. Ref No : _____ SDG No : 10040905

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10040905-026

Sample wt/vol: 30.06 (g/mL):g Lab File ID: 10041012.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 28 Decanted: (Y/N) CLEAR Date Received: 04/09/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/10/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/10/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	230	U
208-96-8	Acenaphthylene	230	U
120-12-7	Anthracene	230	U
56-55-3	Benzo(a)anthracene	230	U
50-32-8	Benzo(a)pyrene	32	U
205-99-2	Benzo(b)fluoranthene	230	U
191-24-2	Benzo(g,h,i)perylene	230	U
207-08-9	Benzo(k)fluoranthene	230	U
218-01-9	Chrysene	230	U
53-70-3	Dibenz(a,h)Anthracene	32	U
206-44-0	Fluoranthene	230	U
86-73-7	Fluorene	230	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	230	U
91-57-6	2-Methylnaphthalene	230	U
91-20-3	Naphthalene	230	U
85-01-8	Phenanthrene	230	U
129-00-0	Pyrene	230	U

LW
8/13/10

(1) Cannot be separated from Diphenylamine

SW8270C

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-224

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81714 Mod Ref No : _____ SDG No.: 10040905

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10040905-027

Sample wt/vol: 30.08 (g/mL):g Lab File ID: 10041011.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) CLEAR Date Received: 04/09/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/10/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/10/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	210	U
208-96-8	Acenaphthylene	210	U
120-12-7	Anthracene	210	U
56-55-3	Benzo(a)anthracene	210	U
50-32-8	Benzo(a)pyrene	29	U
205-99-2	Benzo(b)fluoranthene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
218-01-9	Chrysene	210	U
53-70-3	Dibenz(a,h)Anthracene	29	U
206-44-0	Fluoranthene	210	U
86-73-7	Fluorene	210	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	210	U
91-57-6	2-Methylnaphthalene	210	U
91-20-3	Naphthalene	210	U
85-01-8	Phenanthrene	210	U
129-00-0	Pyrene	210	U

LW
8/13/10

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-226

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No : 81714 Mod Ref No : _____ SDG No.: 10040905

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10040905-028

Sample wt/vol: 30.07 (g/mL):g Lab File ID: 10041010.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) CLEAR Date Received: 04/09/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/10/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/10/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

nw
8/13/10

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
R-229

Lab Name : PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code : PHASE Case No.: 81714 Mod. Ref No : _____ SDG No : 10040905

Matrix : (SOIL/SED/WATER) SOIL Lab Sample Id: 10040905-030

Sample wt/vol: 30.01 (g/mL):g Lab File ID: 10041013.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) CLEAR Date Received: 04/09/2010

Concentrated Extract Volume: 1 (µ L) Date Extracted: 04/10/2010

Injection Volume: _____ (µ L) GPC Factor: 1.000 Date Analyzed: 04/10/2010

GPC Cleanup (Y/N): N pH: N/A Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
83-32-9	Acenaphthene	190	U
208-96-8	Acenaphthylene	190	U
120-12-7	Anthracene	190	U
56-55-3	Benzo(a)anthracene	190	U
50-32-8	Benzo(a)pyrene	27	U
205-99-2	Benzo(b)fluoranthene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
218-01-9	Chrysene	190	U
53-70-3	Dibenz(a,h)Anthracene	27	U
206-44-0	Fluoranthene	190	U
86-73-7	Fluorene	190	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	190	U
91-57-6	2-Methylnaphthalene	190	U
91-20-3	Naphthalene	190	U
85-01-8	Phenanthrene	190	U
129-00-0	Pyrene	190	U

LW
8/13/10

ENVIRONMENTAL
Data Services, Inc.

TAL METALS
USEPA Region III - Level IV Review

Site: Naval Training Center Bainbridge SDG #: 10040905

Client: ARGO Systems, Glen Burnie, MD Date: August 13, 2010

Laboratory: Phase Separation Science, Inc., Baltimore, MD Reviewer: (b) (4) [redacted]

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1*	R-210	10040905-001	Soil
1MS*	R-210MS	10040905-001MS	Soil
1MSD*	R-210MSD	10040905-001MSD	Soil
2*	NR-10	10040905-002	Soil
3*	NR-87	10040905-003	Soil
4	DUP-4	10040905-008	Soil
5*	DUP-6	10040905-010	Soil
6	R-17	10040905-014	Soil
7	R-30	10040905-015	Soil
8	R-40	10040905-016	Soil
9*	R-31	10040905-017	Soil
10*	R-35	10040905-018	Soil
10MS*	R-35MS	10040905-018MS	Soil
10MSD*	R-35MSD	10040905-018MSD	Soil
11*	R-47	10040905-019	Soil
12*	R-52	10040905-020	Soil
13	R-5	10040905-021	Soil
13MS	R-5MS	10040905-021MS	Soil
13MSD	R-5MSD	10040905-021MSD	Soil
14	R-9	10040905-022	Soil
15	R-20	10040905-023	Soil
16*	R-8	10040905-024	Soil
17*	R-220	10040905-025	Soil
18*	R-223	10040905-026	Soil
19*	R-224	10040905-027	Soil
20*	R-226	10040905-028	Soil
21*	R-228	10040905-029	Soil
22*	R-229	10040905-030	Soil

** - Arsenic only*

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination except the following.

Compound	Conc. mg/kg	Action Level mg/kg	Qualifier	Affected Samples
Zinc	9.115	45.57	None	All associated samples > 5X

Field and Equipment Blank - Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level mg/kg	Qualifier	Affected Samples
EB-3	Arsenic	0.5	1.25	None	All > 5X
	Zinc	10	25.0	None	
EB-4	Arsenic	0.5	1.25	None	All > 5X
	Chromium	0.6	1.50	None	
	Copper	0.6	1.50	None	

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following.

MS/MD Sample ID	Compound	MS/MSD %R/RPD	Qualifier	Affected Samples
13	Antimony	53%/53%/OK	L/UL	13-15
	Lead	69%/0%/200	L/UL	13-15
	Zinc	OK/47%/67	L/UL	13-15

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate results are summarized below.

Compound	R-20 mg/kg	DUP-4 mg/kg	RPD	Qualifier
Arsenic	5.0	5.2	4%	None
Chromium	45	49	9%	None
Copper	21	17	21%	None
Lead	110	100	10%	None
Mercury	0.91	0.69	28%	None
Nickel	140	250	56%	None
Zinc	140	120	15%	None

Compound	R-35 mg/kg	DUP-6 mg/kg	RPD	Qualifier
Arsenic	4.9	4.0	20%	None

Compound Quantitation - All criteria were met.

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-210

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10040905

Matrix (soil/water): SOIL Lab Sample ID: 10040905-001

Level (low/med): LOW Date Received: 04/09/2010

% Solids: 83 Batch #: 81707

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.6			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

LW
8/13/10

2

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-10

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10040905

Matrix (soil/water): SOIL Lab Sample ID: 10040905-002

Level (low/med): LOW Date Received: 04/09/2010

% Solids: 81 Batch #: 81707

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.8			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

mw
8/13/10

FORM IA - IN SW6020

3

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NR-87

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10040905

Matrix (soil/water): SOIL Lab Sample ID: 10040905-003

Level (low/med): LOW Date Received: 04/09/2010

% Solids: 86 Batch #: 81707

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.8			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
8/13/10

FORM IA - IN SW6020

4

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-4

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10040905

Matrix (soil/water): SOIL Lab Sample ID: 10040905-008

Level (low/med): LOW Date Received: 04/09/2010

% Solids: 83 Batch #: 81707

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.8	U		MS
7440-38-2	Arsenic	5.2			MS
7440-41-7	Beryllium	2.8	U		MS
7440-43-9	Cadmium	2.8	U		MS
7440-47-3	Chromium	49			MS
7440-50-8	Copper	17			MS
7439-92-1	Lead	100			MS
7439-97-6	Mercury	0.69			MS
7440-02-0	Nickel	250			MS
7782-49-2	Selenium	2.8	U		MS
7440-22-4	Silver	2.8	U		MS
7440-28-0	Thallium	0.6	U		MS
7440-66-6	Zinc	120			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

nw
8/13/10

FORM IA - IN SW6020

5

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
DUP-6

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10040905

Matrix (soil/water): SOIL Lab Sample ID: 10040905-010

Level (low/med): LOW Date Received: 04/09/2010

% Solids: 77 Batch #: 81707

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.0			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/13/10

6

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-17

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10040905

Matrix (soil/water): SOIL Lab Sample ID: 10040905-014

Level (low/med): LOW Date Received: 04/09/2010

% Solids: 80 Batch #: 81707

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.2	U		MS
7440-38-2	Arsenic	4.6			MS
7440-41-7	Beryllium	2.2	U		MS
7440-43-9	Cadmium	2.2	U		MS
7440-47-3	Chromium	22			MS
7440-50-8	Copper	15			MS
7439-92-1	Lead	16			MS
7439-97-6	Mercury	0.05	J		MS
7440-02-0	Nickel	16			MS
7782-49-2	Selenium	2.2	U		MS
7440-22-4	Silver	2.2	U		MS
7440-28-0	Thallium	0.4	U		MS
7440-66-6	Zinc	40			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/13/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
R-30

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10040905
Matrix (soil/water): SOIL Lab Sample ID: 10040905-015
Level (low/med): LOW Date Received: 04/09/2010
% Solids: 84 Batch #: 81707

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.3	U		MS
7440-38-2	Arsenic	4.8			MS
7440-41-7	Beryllium	2.3	U		MS
7440-43-9	Cadmium	2.3	U		MS
7440-47-3	Chromium	22			MS
7440-50-8	Copper	16			MS
7439-92-1	Lead	17			MS
7439-97-6	Mercury	0.06	J		MS
7440-02-0	Nickel	16			MS
7782-49-2	Selenium	2.3	U		MS
7440-22-4	Silver	2.3	U		MS
7440-28-0	Thallium	0.5	U		MS
7440-66-6	Zinc	41			MS

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

NW
8/13/10

8

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-40

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10040905

Matrix (soil/water): SOIL Lab Sample ID: 10040905-016

Level (low/med): LOW Date Received: 04/09/2010

% Solids: 84 Batch #: 81707

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.2	U		MS
7440-38-2	Arsenic	3.5			MS
7440-41-7	Beryllium	2.2	U		MS
7440-43-9	Cadmium	2.2	U		MS
7440-47-3	Chromium	40			MS
7440-50-8	Copper	15			MS
7439-92-1	Lead	64			MS
7439-97-6	Mercury	0.05	J		MS
7440-02-0	Nickel	33			MS
7782-49-2	Selenium	2.2	U		MS
7440-22-4	Silver	2.2	U		MS
7440-28-0	Thallium	0.4	U		MS
7440-66-6	Zinc	48			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/13/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
R-31

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309
Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10040905
Matrix (soil/water): SOIL Lab Sample ID: 10040905-017
Level (low/med): LOW Date Received: 04/09/2010
% Solids: 80 Batch #: 81707

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.5			MS

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

MW
8/13/10

10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-35 MS/MSD

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10040905

Matrix (soil/water): SOIL Lab Sample ID: 10040905-018

Level (low/med): LOW Date Received: 04/09/2010

% Solids: 79 Batch #: 81707

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.9			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/13/10

FORM IA - IN SW6020

11

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-47

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10040905

Matrix (soil/water): SOIL Lab Sample ID: 10040905-019

Level (low/med): LOW Date Received: 04/09/2010

% Solids: 82 Batch #: 81707

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
8/13/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
R-52

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309
Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No : 10040905
Matrix (soil/water): SOIL Lab Sample ID: 10040905-020
Level (low/med): LOW Date Received: 04/09/2010
% Solids: 81 Batch #: 81707

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.0			MS

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

UW
8/13/10

13

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-5

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No : _____ SDG No : 10040905

Matrix (soil/water): SOIL Lab Sample ID: 10040905-021

Level (low/med): LOW Date Received: 04/09/2010

% Solids: 79 Batch #: 81707

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.0	U	N	MS	UL
7440-38-2	Arsenic	6.8			MS	
7440-41-7	Beryllium	3.0	U		MS	
7440-43-9	Cadmium	3.0	U		MS	
7440-47-3	Chromium	14		N	MS	
7440-50-8	Copper	15		N	MS	
7439-92-1	Lead	55		N	MS	L
7439-97-6	Mercury	0.23			MS	
7440-02-0	Nickel	7.2		N	MS	
7782-49-2	Selenium	3.0	U		MS	
7440-22-4	Silver	3.0	U		MS	
7440-28-0	Thallium	0.47	J		MS	
7440-66-6	Zinc	58		N	MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MW
8/13/10

FORM IA - IN SW6020

14

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-9

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No : 10040905

Matrix (soil/water): SOIL Lab Sample ID: 10040905-022

Level (low/med): LOW Date Received: 04/09/2010

% Solids: 80 Batch #: 81707

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.5	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	11			MS	
7440-41-7	Beryllium	2.5	U		MS	
7440-43-9	Cadmium	2.5	U		MS	
7440-47-3	Chromium	19			MS	
7440-50-8	Copper	29			MS	
7439-92-1	Lead	110		~~N~~	MS	L
7439-97-6	Mercury	0.49			MS	
7440-02-0	Nickel	11			MS	
7782-49-2	Selenium	2.5	U		MS	
7440-22-4	Silver	7.7			MS	
7440-28-0	Thallium	0.26	J		MS	
7440-66-6	Zinc	97			MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/13/10

15

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-20

Lab Name: PHASE SEPARATION SCIENCE Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No : 10040905

Matrix (soil/water): SOIL Lab Sample ID: 10040905-023

Level (low/med): LOW Date Received: 04/09/2010

% Solids: 79 Batch #: 81707

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	2.6	~~U~~	~~N~~	MS	UL
7440-38-2	Arsenic	5.0			MS	
7440-41-7	Beryllium	2.6	U		MS	
7440-43-9	Cadmium	2.6	U		MS	
7440-47-3	Chromium	45		~~N~~	MS	
7440-50-8	Copper	21		~~N~~	MS	
7439-92-1	Lead	110		~~N~~	MS	L
7439-97-6	Mercury	0.91			MS	
7440-02-0	Nickel	140		~~N~~	MS	
7782-49-2	Selenium	2.6	U		MS	
7440-22-4	Silver	2.6	U		MS	
7440-28-0	Thallium	0.5	U		MS	
7440-66-6	Zinc	140		~~N~~	MS	L

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

nw
8/13/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-8

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10040905

Matrix (soil/water): SOIL Lab Sample ID: 10040905-024

Level (low/med): LOW Date Received: 04/09/2010

% Solids: 80 Batch #: 81707

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	6.5			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NW
8/13/10

17

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-220

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No: _____ SDG No: 10040905

Matrix (soil/water): SOIL Lab Sample ID: 10040905-025

Level (low/med): LOW Date Received: 04/09/2010

% Solids: 85 Batch #: 81707

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.0			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

MS
8/13/10

FORM IA - IN SW6020

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-223

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No.: _____ NRAS No : _____ SDG No.: 10040905

Matrix (soil/water): SOIL Lab Sample ID: 10040905-026

Level (low/med): LOW Date Received: 04/09/2010

% Solids: 72 Batch #: 81707

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	9.0			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

mi
8/13/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-224

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10040905

Matrix (soil/water): SOIL Lab Sample ID: 10040905-027

Level (low/med): LOW Date Received: 04/09/2010

% Solids: 80 Batch #: 81707

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	8.3			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Leo
8/13/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

R-226

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309

Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10040905

Matrix (soil/water): SOIL Lab Sample ID: 10040905-028

Level (low/med): LOW Date Received: 04/09/2010

% Solids: 86 Batch #: 81707

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.5			MS

Color Before _____ Clarity Before _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

UMO
8/13/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
R-228

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309
Lab Code: PHASE Case No.: _____ NRAS No.: _____ SDG No.: 10040905
Matrix (soil/water): SOIL Lab Sample ID: 10040905-029
Level (low/med): LOW Date Received: 04/09/2010
% Solids: 88 Batch #: 81707

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.8			MS

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

lw
8/13/10

USEPA - CLP
1A- IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
R-229

Lab Name: PHASE SEPARATION SCIENCE, Contract: 1462309
Lab Code: PHASE Case No : _____ NRAS No.: _____ SDG No.: 10040905
Matrix (soil/water): SOIL Lab Sample ID: 10040905-030
Level (low/med): LOW Date Received: 04/09/2010
% Solids: 87 Batch #: 81707

Concentration Units (ug/ L or mg/kg dry weight) MG/KG

CAS No	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.5			MS

Color Before _____ Clarity Before _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

VW
8/31/10