L1838130001 – Vermilion County
DUNAVAN WASTE OIL
ILD980794929
HRS/SF
(Volume 2 of 2)

CERCLA

Analytical Results

Illinois Environmental
Protection Agency

EPA Region 5 Records Ctr.
296250

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229 **R**
DAS No:

Region:	5	**Date Shipped:**	4/11/2006	**Chain of Custody Record**	**Sampler Signature:**
Project Code:	TFA-102	**Carrier Name:**	UPS	**Relinquished By** (Date / Time)	**Received By** (Date / Time)
Account Code:		**Airbill:**	1Z6215892210024099	1 [illegible] 4/11/06 4:30 pm	
CERCLIS ID:	ILD980794929	**Shipped to:**	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330	2	
Spill ID:	ZZ			3	
Site Name/State:	Dunavan Oil/IL			4	
Project Leader:	JOE SAMPLER				
Action:	Expanded Site Investigation/RI				
Sampling Co:	IEPA				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
E0001	Soil/Sediment/ Lance Range	L/G	VOA (21)	304154 (1)	X101	S: 4/11/2006	8:45	ME0001	--
E0002	Soil/Sediment/ Lance Range	L/G	VOA (21)	304157 (1)	X102	S: 4/11/2006	10:00	ME0002	--
E0003	Soil/Sediment/ Lance Range	L/G	VOA (21)	304162 (1)	X103	S: 4/11/2006	10:50	ME0003	--
E0004	Soil/Sediment/ Lance Range	L/G	VOA (21)	304166 (1)	X104	S: 4/11/2006	11:35	ME0004	--
E0005	Soil/Sediment/ Lance Range	L/G	VOA (21)	304170 (1)	X105	S: 4/11/2006	12:15	ME0005	--
E0006	Soil/Sediment/ Lance Range	L/G	VOA (21)	304174 (1)	X106	S: 4/11/2006	13:10	ME0006	--
E0007	Soil/Sediment/ Lance Range	L/G	VOA (21)	304178 (1)	X107	S: 4/11/2006	14:00	ME0007	--
E0008	Soil/Sediment/ Lance Range	L/G	VOA (21)	304182 (1)	X108	S: 4/11/2006	15:05	ME0008	--
E0009	Soil/Sediment/ Lance Range	L/G	VOA (21)	304186 (1)	X109	S: 4/11/2006	15:40	ME0009	--

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:**	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:** 8212
Analysis Key: VOA = CLP TCL Volatiles	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

TR Number: **5-314975591-041106-0002**

REGION COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case: 35229
Client No:

R

Region:	5	**Date Shipped:**	4/11/2006	**Chain of Custody Record**	**Sampler Signature:**
Project Code:	TFA-102	**Carrier Name:**	UPS	**Relinquished By** (Date / Time)	**Received By** (Date / Time)
Account Code:		**Airbill:**	1Z6215892210024099	1 4/11/06 4:30 p.m.	
CERCLIS ID:	ILD980794929	**Shipped to:**	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330	2	
Spill ID:	ZZ			3	
Site Name/State:	Dunavan Oil/IL			4	
Project Leader:	JOE SAMPLER				
Action:	Expanded Site Investigation/RI				
Sampling Co:	IEPA				

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
X101	Soil/Sediment/ Lance Range	L/G	DW (21)	304159 (1)	X101	S: 4/11/2006 8:45	--
X102	Soil/Sediment/ Lance Range	L/G	DW (21)	304158 (1)	X102	S: 4/11/2006 10:00	--
X103	Soil/Sediment/ Lance Range	L/G	DW (21)	304163 (1)	X103	S: 4/11/2006 10:50	--
X104	Soil/Sediment/ Lance Range	L/G	DW (21)	304167 (1)	X104	S: 4/11/2006 11:35	--
X105	Soil/Sediment/ Lance Range	L/G	DW (21)	304171 (1)	X105	S: 4/11/2006 12:15	--
X106	Soil/Sediment/ Lance Range	L/G	DW (21)	304175 (1)	X106	S: 4/11/2006 13:10	--
X107	Soil/Sediment/ Lance Range	L/G	DW (21)	304179 (1)	X107	S: 4/11/2006 14:00	--
X108	Soil/Sediment/ Lance Range	L/G	DW (21)	304183 (1)	X108	S: 4/11/2006 15:05	--
X109	Soil/Sediment/ Lance Range	L/G	DW (21)	304187 (1)	X109	S: 4/11/2006 15:40	--

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:**	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:** 28172
Analysis Key: DW = Dry Weight	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

TR Number: **5-314975591-041106-0003**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

RECEIVED COPY

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229 **R**
DAS No:

Region:	5	**Date Shipped:**	4/12/2006	**Chain of Custody Record**	**Sampler Signature:**
Project Code:	TFA-102	**Carrier Name:**	UPS	**Relinquished By** (Date / Time)	**Received By** (Date / Time)
Account Code:		**Airbill:**	1Z6215892210024124	1 [illegible] 4/12/06 1735	
CERCLIS ID:	ILD980794929	**Shipped to:**	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330	2	
Spill ID:	ZZ			3	
Site Name/State:	Dunavan Oil/IL			4	
Project Leader:	JOE SAMPLER				
Action:	Expanded Site Investigation/RI				
Sampling Co:	IEPA				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
E0010	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	304188 (HCL), 304189 (HCL), 304190 (HCL), 304191 (HCL), 304192 (HCL), 304193, 304194 (12)	G101	S: 4/11/2006 16:45	ME0010	--
E0011	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263353 (HCL), 263354 (HCL), 263355 (HCL), 263356 (HCL), 263357 (HCL), 263358, 263359 (12)	G102	S: 4/11/2006 17:25	ME0011	--
E0013	Potable Well/ Lance Range	L/G	CLP TVOA (21), CLP TVSIM (21)	304198 (HCL), 304199 (HCL) (4)	Trip Blank 1	S: 4/5/2006 10:00		Trip Blank
E0014	Soil/Sediment/ Lance Range	L/G	VOA (21)	304200 (1)	X110	S: 4/5/2006 8:50	ME0014	Lab QC
E0015	Soil/Sediment/ Lance Range	L/G	VOA (21)	263368 (1)	X111	S: 4/5/2006 9:50	ME0015	--
E0016	Soil/Sediment/ Lance Range	L/G	VOA (21)	263372 (1)	X112	S: 4/12/2006 9:50	ME0016	Field Duplicate
E0017	Soil/Sediment/ Lance Range	L/G	VOA (21)	263376 (1)	X113	S: 4/12/2006 10:40	ME0017	--
E0018	Sediment/ Lance Range	L/G	VOA (21)	263379, 263380 (2)	S101	S: 4/12/2006 12:30	ME0018	--

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:** E0014, E0016, E0020	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:** 82813 - 82815
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?**

CLP ARO = CLP TCL PCB (Aroclors), CLP PEST = CLP TCL Pesticide, CLP SVOA = CLP TCL Semivolatile, CLP SVSIM = CLP TCL Semivolatiles-SIM, CLP TVOA = CLP TCL Trace Volatiles, CLP TVSIM = CLP TCL Trace Volatiles-SIM, VOA = CLP TCL Volatiles

TR Number: 5-314975591-041206-0003

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229 **R**
DAS No:

Region:	5	**Date Shipped:**	4/12/2006	**Chain of Custody Record**	**Sampler Signature:** Lance Range
Project Code:	TFA-102	**Carrier Name:**	UPS	**Relinquished By** (Date / Time)	**Received By** (Date / Time)
Account Code:		**Airbill:**	1Z6215892210024124	1 Tony Walker 4/12/06 1135	
CERCLIS ID:	ILD980794929	**Shipped to:**	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330	2	
Spill ID:	ZZ			3	
Site Name/State:	Dunavan Oil/IL			4	
Project Leader:	JOE SAMPLER				
Action:	Expanded Site Investigation/RI				
Sampling Co:	IEPA				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
E0019	Sediment/ Lance Range	L/G	VOA (21)	263384, 263385 (2)	S102	S: 4/12/2006	12:20	ME0019	--
E0020	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263275, 263276, 263277, 263278, 263279, 263280, 263386 (HCL), 263387 (HCL), 263388 (HCL), 263389 (HCL), 263390 (HCL), 263391 (HCL), 263392 (HCL), 263393 (HCL), 263394 (HCL), 263395 (HCL), 263396 (HCL), 263397 (HCL), 263398 (HCL), 263399 (HCL), 263400 (HCL) (36)	G103	S: 4/12/2006	12:40	ME0020	Lab QC
E0027	Soil/Sediment/ Lance Range	L/G	VOA (21)	264000 (1)	X114	S: 4/12/2006	13:55	ME0027	--
E0028	Soil/Sediment/ Lance Range	L/G	VOA (21)	263454 (1)	X115	S: 4/12/2006	16:55	ME0028	--

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:** E0014, E0016, E0020	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:** 22813 - 22815
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

CLP ARO = CLP TCL PCB (Aroclors), CLP PEST = CLP TCL Pesticide, CLP SVOA = CLP TCL Semivolatile, CLP SVSIM = CLP TCL Semivolatiles-SIM, CLP TVOA = CLP TCL Trace Volatiles, CLP TVSIM = CLP TCL Trace Volatiles-SIM, VOA = CLP TCL Volatiles

TR Number: 5-314975591-041206-0003

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case: 35229
Client No:

R

Region:	5	**Date Shipped:**	4/12/2006	**Chain of Custody Record**	**Sampler Signature:** Lance Range
Project Code:	TFA-102	**Carrier Name:**	UPS	**Relinquished By** (Date / Time)	**Received By** (Date / Time)
Account Code:		**Airbill:**	1Z6215892210024124	1 [illegible] 4/12/06 1735	
CERCLIS ID:	ILD980794929	**Shipped to:**	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330	2	
Spill ID:	ZZ			3	
Site Name/State:	Dunavan Oil/IL			4	
Project Leader:	JOE SAMPLER				
Action:	Expanded Site Investigation/RI				
Sampling Co:	IEPA				

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		QC Type
X110	Soil/Sediment/ Lance Range	L/G	DW (21)	263363 (1)	X110	S: 4/5/2006	8:50	Lab QC
X111	Soil/Sediment/ Lance Range	L/G	DW (21)	263369 (1)	X111	S: 4/5/2006	9:50	--
X112	Soil/Sediment/ Lance Range	L/G	DW (21)	263373 (1)	X112	S: 4/12/2006	9:50	Field Duplicate
X113	Soil/Sediment/ Lance Range	L/G	DW (21)	263377 (1)	X113	S: 4/12/2006	10:40	--
X114	Soil/Sediment/ Lance Range	L/G	DW (21)	263452 (1)	X114	S: 4/12/2006	13:55	--
X115	Soil/Sediment/ Lance Range	L/G	DW (21)	263456 (1)	X115	S: 4/12/2006	16:55	--

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:** X112	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:** 82813 - 82815
Analysis Key: DW = Dry Weight	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

TR Number: **5-314975591-041206-0002**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 35229 **R**
DAS No:

Region:	5	**Date Shipped:**	4/12/2006	**Chain of Custody Record**	**Sampler Signature:**
Project Code:	TFA-102	**Carrier Name:**	UPS	**Relinquished By** (Date / Time)	**Received By** (Date / Time)
Account Code:		**Airbill:**	1Z6215892210024133	1 [illegible] 4/12/06 1735	
CERCLIS ID:	ILD980794929	**Shipped to:**	Sentinel Inc. 116 Washington Street, NE Huntsville AL 35801 (256) 534-9800	2	
Spill ID:	ZZ			3	
Site Name/State:	Dunavan Oil/IL			4	
Project Leader:	JOE SAMPLER				
Action:	Expanded Site Investigation/RI				
Sampling Co:	IEPA				

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	QC Type
ME0010	Potable Well/ Lance Range	L/G	CN (21), TM/Hg (21)	304195 (HNO3), 304196 (NaOH) (2)	G101	S: 4/11/2006	16:45	E0010	--
ME0011	Potable Well/ Lance Range	L/G	CN (21), TM/Hg (21)	263360 (HNO3), 263361 (NaOH) (2)	G102	S: 4/11/2006	17:25	E0011	--
ME0020	Potable Well/ Lance Range	L/G	CN (21), TM/Hg (21)	263281 (HNO3), 263282 (HNO3), 263283 (HNO3), 263284 (NaOH), 263285 (NaOH), 263286 (NaOH) (6)	G103	S: 4/12/2006	12:40	E0020	Lab QC

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:** ME0020	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:** 8816
Analysis Key: CN = Cyanide, TM/Hg = CLP TAL Total Metals/Hg	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

TR Number: **5-314975591-041206-0005**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case: 35229
Client No:

R

Region:	5	**Date Shipped:**	4/12/2006	**Chain of Custody Record**	**Sampler Signature:**
Project Code:	TFA-102	**Carrier Name:**	UPS	**Relinquished By (Date / Time)**	**Received By (Date / Time)**
Account Code:		**Airbill:**	1Z6215892210024133	1 [illegible] 4/12/06 1735	
CERCLIS ID:	ILD980794929	**Shipped to:**	Sentinel Inc. 116 Washington Street, NE Huntsville AL 35801 (256) 534-9800	2	
Spill ID:	ZZ			3	
Site Name/State:	Dunavan Oil/IL			4	
Project Leader:	JOE SAMPLER				
Action:	Expanded Site Investigation/RI				
Sampling Co:	IEPA				

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
G101	Potable Well/ Lance Range	L/G	SO3 (21), SO4 (21)	304197 (Others) (2)	G101	S: 4/11/2006 16:45	--
G102	Potable Well/ Lance Range	L/G	SO3 (21), SO4 (21)	263362 (Others) (2)	G102	S: 4/11/2006 17:25	--
G103	Potable Well/ Lance Range	L/G	SO3 (21), SO4 (21)	263287 (Others), 263288 (Others), 263289 (Others) (6)	G103	S: 4/12/2006 12:40	Lab QC

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:** G103	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:** 72816
Analysis Key: SO3 = Sulfite, SO4 = Sulfate	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

TR Number: 5-314975591-041206-0004

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case: 35229
Client No:

R

Region:	5	Date Shipped:	4/13/2006	**Chain of Custody Record**	Sampler Signature:
Project Code:	TFA-102	Carrier Name:	UPS	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	1Z6215892210024179	1 Terry Letulier 4/13/06 1200	
CERCLIS ID:	ILD980794929	Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330	2	
Spill ID:	ZZ			3	
Site Name/State:	Dunavan Oil/IL			4	
Project Leader:	JOE SAMPLER				
Action:	Expanded Site Investigation/RI				
Sampling Co:	IEPA				

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
X116	Soil/Sediment/ Lance Range	L/G	DW (21)	263472 (1)	X116	S: 4/13/2006 8:30	--
X117	Soil/Sediment/ Lance Range	L/G	DW (21)	263476 (1)	X117	S: 4/6/2006 8:45	--
X118	Soil/Sediment/ Lance Range	L/G	DW (21)	263480 (1)	X118	S: 4/13/2006 9:00	--

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number: 82817-82820
Analysis Key: DW = Dry Weight	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?

TR Number: 5-314975591-041306-0001

REGION COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229 (R)
DAS No:

Region:	5	Date Shipped:	4/13/2006	Chain of Custody Record	Sampler Signature: Lance Clark
Project Code:	TFA-102	Carrier Name:	UPS	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	1Z6215892210024179	1 [illegible] 4/13/06 1200	
CERCLIS ID:	ILD980794929	Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330	2	
Spill ID:	ZZ			3	
Site Name/State:	Dunavan Oil/IL			4	
Project Leader:	JOE SAMPLER				
Action:	Expanded Site Investigation/RI				
Sampling Co:	IEPA				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
E0001	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	304153 (1)	X101	S: 4/11/2006	8:45	ME0001	--
E0002	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	304156 (1)	X102	S: 4/11/2006	10:00	ME0002	--
E0003	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	304161 (1)	X103	S: 4/11/2006	10:50	ME0003	--
E0004	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	304165 (1)	X104	S: 4/11/2006	11:35	ME0004	--
E0005	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	304169 (1)	X105	S: 4/11/2006	12:15	ME0005	--
E0006	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	304173 (1)	X106	S: 4/11/2006	13:10	ME0006	--
E0007	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	304177 (1)	X107	S: 4/11/2006	14:00	ME0007	--
E0008	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	304181 (1)	X108	S: 4/11/2006	15:05	ME0008	--
E0009	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	304185 (1)	X109	S: 4/11/2006	15:40	ME0009	--
E0014	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	263365 (1)	X110	S: 4/5/2006	8:50	ME0014	Lab QC
E0015	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	263367 (1)	X111	S: 4/5/2006	9:50	ME0015	--

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E0016, E0024, E0038	Additional Sampler Signature(s):	Chain of Custody Seal Number: 32817 - 32820
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?

CLP ARO = CLP TCL PCB (Aroclors), CLP PEST = CLP TCL Pesticide, CLP SVOA = CLP TCL Semivolatile, CLP SVSIM = CLP TCL Semivolatiles-SIM, CLP TVOA = CLP TCL Trace Volatiles, CLP TVSIM = CLP TCL Trace Volatiles-SIM, VOA = CLP TCL Volatiles

TR Number: 5-314975591-041306-0002

SECTION COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229 **R**
DAS No:

Region:	5	Date Shipped:	4/13/2006	Chain of Custody Record	Sampler Signature: Lance Range
Project Code: / Account Code:	TFA-102	Carrier Name:	UPS	Relinquished By (Date / Time)	Received By (Date / Time)
CERCLIS ID:	ILD980794929	Airbill:	1Z6215892210024179	1 [illegible] 4/13/06 [illegible]	
Spill ID:	ZZ	Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330	2	
Site Name/State:	Dunavan Oil/IL			3	
Project Leader:	JOE SAMPLER			4	
Action:	Expanded Site Investigation/RI				
Sampling Co:	IEPA				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
E0016	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	263371 (1)	X112	S: 4/12/2006	9:50	ME0016	Field Duplicate
E0017	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	263375 (1)	X113	S: 4/12/2006	10:40	ME0017	--
E0018	Sediment/ Lance Range	L/G	CLP SVOA (21)	263381 (1)	S101	S: 4/12/2006	12:30	ME0018	--
E0019	Sediment/ Lance Range	L/G	CLP SVOA (21)	263383 (1)	S102	S: 4/12/2006	12:20	ME0019	--
E0022	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263290 (HCL), 263291 (HCL), 263292 (HCL), 263293 (HCL), 263294 (HCL), 263295, 263296 (12)	Field Blank	S: 4/12/2006	14:30	ME0022	--
E0023	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263968 (HCL), 263969 (HCL), 263970 (HCL), 263971 (HCL), 263972 (HCL), 263973, 263974 (12)	G104	S: 4/12/2006	14:20	ME0023	--
E0024	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263978 (HCL), 263979 (HCL), 263980 (HCL), 263981 (HCL), 263982 (HCL), 263983, 263984 (12)	G189	S: 4/12/2006	14:20	ME0024	Field Duplicate

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E0016, E0024, E0038	Additional Sampler Signature(s):	Chain of Custody Seal Number: 82817-82820
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?

CLP ARO = CLP TCL PCB (Aroclors), CLP PEST = CLP TCL Pesticide, CLP SVOA = CLP TCL Semivolatile, CLP SVSIM = CLP TCL Semivolatiles-SIM, CLP TVOA = CLP TCL Trace Volatiles, CLP TVSIM = CLP TCL Trace Volatiles-SIM, VOA = CLP TCL Volatiles

TR Number: 5-314975591-041306-0002

REGION COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229 **R**
DAS No:

Region:	5	Date Shipped:	4/13/2006	**Chain of Custody Record**	Sampler Signature: Lance Range
Project Code:	TFA-102	Carrier Name:	UPS	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	1Z6215892210024179	1 [signature] 4/13/06 1200	
CERCLIS ID:	ILD980794929	Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330	2	
Spill ID:	ZZ			3	
Site Name/State:	Dunavan Oil/IL			4	
Project Leader:	JOE SAMPLER				
Action:	Expanded Site Investigation/RI				
Sampling Co:	IEPA				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
E0025	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263988 (HCL), 263989 (HCL), 263990 (HCL), 263991 (HCL), 263992 (HCL), 263993, 263994 (12)	G105	S: 4/5/2006	14:50	ME0025	--
E0026	Potable Well/ Lance Range	L/G	CLP TVOA (21), CLP TVSIM (21)	263998 (HCL), 263999 (HCL) (4)	Trip Blank 2	S: 4/12/2006	16:00		Trip Blank
E0027	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	263300 (1)	X114	S: 4/12/2006	13:55	ME0027	--
E0028	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	263455 (1)	X115	S: 4/12/2006	16:55	ME0028	--
E0029	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263458, 263459, 263460 (3)	S106	S: 4/12/2006	17:20	ME0029	--
E0030	Sediment/ Paul Mason	L/G	CLP SVOA (21), VOA (21)	263462, 263463, 263464 (3)	S107	S: 4/12/2006	17:40	ME0030	--
E0031	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263466, 263467, 263468 (3)	S108	S: 4/12/2006	18:00	ME0031	--
E0032	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263470, 263471 (2)	X116	S: 4/13/2006	8:30	ME0032	--
E0033	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263474, 263475 (2)	X117	S: 4/6/2006	8:45	ME0033	--

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E0016, E0024, E0038	Additional Sampler Signature(s):	Chain of Custody Seal Number: 82817-82820
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

CLP ARO = CLP TCL PCB (Aroclors), CLP PEST = CLP TCL Pesticide, CLP SVOA = CLP TCL Semivolatile, CLP SVSIM = CLP TCL Semivolatiles-SIM, CLP TVOA = CLP TCL Trace Volatiles, CLP TVSIM = CLP TCL Trace Volatiles-SIM, VOA = CLP TCL Volatiles

TR Number: 5-314975591-041306-0002

REGION COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229 **R**
DAS No:

Region:	5	Date Shipped:	4/13/2006	**Chain of Custody Record**	Sampler Signature: Lance Range
Project Code:	TFA-102	Carrier Name:	UPS	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	1Z6215892210024179	1 [illegible] 4/13/06 1200	
CERCLIS ID:	ILD980794929	Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330	2	
Spill ID:	ZZ			3	
Site Name/State:	Dunavan Oil/IL			4	
Project Leader:	JOE SAMPLER				
Action:	Expanded Site Investigation/RI				
Sampling Co:	IEPA				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
E0034	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263478, 263479 (2)	X118	S: 4/13/2006	9:00	ME0034	--
E0035	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263481 (HCL), 263482 (HCL), 263483 (HCL), 263484 (HCL), 263485 (HCL), 263486, 263487 (12)	G106	S: 4/13/2006	10:00	ME0035	--
E0036	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263490, 263491, 263493 (3)	S103	S: 4/13/2006	10:05	ME0036	--
E0037	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263494, 263495, 263497 (3)	S104	S: 4/13/2006	11:00	ME0037	--
E0038	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263498, 263499, 263601 (3)	S105	S: 4/13/2006	11:00	ME0038	Field Duplicate
E0039	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263602, 263603, 263605 (3)	S109	S: 4/13/2006	10:20	ME0039	--
E0040	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263606, 263607, 263609 (3)	S110	S: 4/13/2006	10:40	ME0040	--

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E0016, E0024, E0038	Additional Sampler Signature(s):	Chain of Custody Seal Number: 82817-82820
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

CLP ARO = CLP TCL PCB (Aroclors), CLP PEST = CLP TCL Pesticide, CLP SVOA = CLP TCL Semivolatile, CLP SVSIM = CLP TCL Semivolatiles-SIM, CLP TVOA = CLP TCL Trace Volatiles, CLP TVSIM = CLP TCL Trace Volatiles-SIM, VOA = CLP TCL Volatiles

TR Number: 5-314975591-041306-0002

REGION COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 35229 **R**
DAS No:

Region:	5	**Date Shipped:**	4/13/2006	**Chain of Custody Record**	**Sampler Signature:** Dave Range
Project Code:	TFA-102	**Carrier Name:**	UPS	**Relinquished By** (Date / Time)	**Received By** (Date / Time)
Account Code:		**Airbill:**	1Z6215892210024197	1 [illegible] 4/13/06 1300	
CERCLIS ID:	ILD980794929	**Shipped to:**	Sentinel Inc. 116 Washington Street, NE Huntsville AL 35801 (256) 534-9800	2	
Spill ID:	ZZ			3	
Site Name/State:	Dunavan Oil/IL			4	
Project Leader:	JOE SAMPLER				
Action:	Expanded Site Investigation/RI				
Sampling Co:	IEPA				

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	QC Type
ME0001	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	304152 (1)	X101	S: 4/11/2006	8:45	E0001	--
ME0002	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	304155 (1)	X102	S: 4/11/2006	10:00	E0002	--
ME0003	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	304160 (1)	X103	S: 4/11/2006	10:50	E0003	--
ME0004	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	304164 (1)	X104	S: 4/11/2006	11:35	E0004	--
ME0005	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	304168 (1)	X105	S: 4/11/2006	12:15	E0005	--
ME0006	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	304172 (1)	X106	S: 4/11/2006	13:10	E0006	--
ME0007	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	304176 (1)	X107	S: 4/11/2006	14:00	E0007	--
ME0008	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	304180 (1)	X108	S: 4/11/2006	15:05	E0008	--
ME0009	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	304184 (1)	X109	S: 4/11/2006	15:40	E0009	--
ME0014	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263364 (1)	X110	S: 4/5/2006	8:50	E0014	Lab QC
ME0015	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263366 (1)	X111	S: 4/5/2006	9:50	E0015	--

Shipment for Case Complete? Y	**Sample(s) to be used for laboratory QC:** ME0016, ME0024, ME0038	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:** 82821-82822
Analysis Key: CN = Cyanide, TM/Hg = CLP TAL Total Metals/Hg	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

TR Number: 5-314975591-041306-0003

REGION COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 35229
DAS No:
R

Region:	5	Date Shipped:	4/13/2006	**Chain of Custody Record**	Sampler Signature: Lance Range
Project Code:	TFA-102	Carrier Name:	UPS	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	1Z6215892210024197	1 [illegible] 4/13/06 1200	
CERCLIS ID:	ILD980794929	Shipped to:	Sentinel Inc. 116 Washington Street, NE Huntsville AL 35801 (256) 534-9800	2	
Spill ID:	ZZ			3	
Site Name/State:	Dunavan Oil/IL			4	
Project Leader:	JOE SAMPLER				
Action:	Expanded Site Investigation/RI				
Sampling Co:	IEPA				

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	QC Type
ME0016	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263370 (1)	X112	S: 4/12/2006	9:50	E0016	Field Duplicate
ME0017	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263374 (1)	X113	S: 4/12/2006	10:40	E0017	--
ME0018	Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263378 (1)	S101	S: 4/12/2006	12:30	E0018	--
ME0019	Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263382 (1)	S102	S: 4/12/2006	12:20	E0019	--
ME0022	Potable Well/ Lance Range	L/G	CN (21), TM/Hg (21)	263297 (HNO3), 263298 (NaOH) (2)	Field Blank	S: 4/12/2006	14:30	E0022	--
ME0023	Potable Well/ Lance Range	L/G	CN (21)	263976 (NaOH) (1)	G104	S: 4/12/2006	14:20	E0023	--
ME0024	Potable Well/ Lance Range	L/G	CN (21)	263986 (NaOH) (1)	G189	S: 4/12/2006	14:20	E0024	Field Duplicate
ME0025	Potable Well/ Lance Range	L/G	CN (21), TM/Hg (21)	263995 (HNO3), 263996 (NaOH) (2)	G105	S: 4/5/2006	14:50	E0025	--
ME0027	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263451 (1)	X114	S: 4/12/2006	13:55	E0027	--
ME0028	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263453 (1)	X115	S: 4/12/2006	16:55	E0028	--
ME0029	Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263457 (1)	S106	S: 4/12/2006	17:20	E0029	--

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: ME0016, ME0024, ME0038	Additional Sampler Signature(s):	Chain of Custody Seal Number: 82821-82822
Analysis Key: CN = Cyanide, TM/Hg = CLP TAL Total Metals/Hg	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

TR Number: 5-314975591-041306-0003

REGION COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 35229
DAS No:
R

Region:	5	Date Shipped:	4/13/2006	Chain of Custody Record	Sampler Signature: Lance Range
Project Code:	TFA-102	Carrier Name:	UPS	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	1Z6215892210024197	1 Terry Gibson 4/13/06 12a	
CERCLIS ID:	ILD980794929	Shipped to:	Sentinel Inc. 116 Washington Street, NE Huntsville AL 35801 (256) 534-9800	2	
Spill ID:	ZZ			3	
Site Name/State:	Dunavan Oil/IL			4	
Project Leader:	JOE SAMPLER				
Action:	Expanded Site Investigation/RI				
Sampling Co:	IEPA				

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	QC Type
ME0030	Sediment/ Paul Mason	L/G	CN (21), TM/Hg (21)	263461 (1)	S107	S: 4/12/2006	17:40	E0030	--
ME0031	Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263465 (1)	S108	S: 4/12/2006	18:00	E0031	--
ME0032	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263469 (1)	X116	S: 4/13/2006	8:30	E0032	--
ME0033	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263473 (1)	X117	S: 4/6/2006	8:45	E0033	--
ME0034	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263477 (1)	X118	S: 4/13/2006	9:00	E0034	--
ME0035	Potable Well/ Lance Range	L/G	CN (21), TM/Hg (21)	263488 (HNO3), 263489 (NaOH) (2)	G106	S: 4/13/2006	10:00	E0035	--
ME0036	Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263492 (1)	S103	S: 4/13/2006	10:05	E0036	--
ME0037	Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263496 (1)	S104	S: 4/13/2006	11:00	E0037	--
ME0038	Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263500 (1)	S105	S: 4/13/2006	11:00	E0038	Field Duplicate
ME0039	Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263604 (1)	S109	S: 4/13/2006	10:20	E0039	--
ME0040	Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263608 (1)	S110	S: 4/13/2006	10:40	E0040	--

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: ME0016, ME0024, ME0038	Additional Sampler Signature(s):	Chain of Custody Seal Number: 82821-82822
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

CN = Cyanide, TM/Hg = CLP TAL Total Metals/Hg

TR Number: 5-314975591-041306-0003

REGION COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr , Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

EPA SEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35383
DAS No:
SDG No:
L

Date Shipped:	5/31/2006
Carrier Name:	UPS
Airbill:	1Z6215892210025945
Shipped to:	Datachem Laboratories, Inc. 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
[illegible]	5/31/06 1400		
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00L8	Soil/Sediment/ Lance Range	L/G	VOA (21)	5-277427 (Ice Only), 5-277428 (Ice Only) (2)	S103	S: 5/31/2006 10:25		
E00L9	Soil/Sediment/ Lance Range	L/G	VOA (21)	5-277429 (Ice Only), 5-277430 (Ice Only) (2)	S109	S: 5/31/2006 10:35		
E00M0	Soil/Sediment/ Lance Range	L/G	VOA (21)	5-277431 (Ice Only), 5-277432 (Ice Only) (2)	S110	S: 5/31/2006 10:50		
E00M1	Soil/Sediment/ Lance Range	L/G	VOA (21)	5-277433 (Ice Only), 5-277434 (Ice Only) (2)	S104	S: 5/31/2006 11:10		
E00M3	Soil/Sediment/ Lance Range	L/G	VOA (21)	5-277435 (Ice Only), 5-277436 (Ice Only) (2)	S105	S: 5/31/2006 11:10		
E00M4	Soil (0"-12")/ Lance Range	L/G	Dry Weight (21), VOA (21)	5-277437 (Ice Only), 5-277438 (Ice Only) (2)	X117	S: 5/31/2006 11:45		
E00M5	Soil (0"-12")/ Lance Range	L/G	Dry Weight (21), VOA (21)	5-277439 (Ice Only), 5-277440 (Ice Only) (2)	X118	S: 5/31/2006 11:50		

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E00M3, E00M5	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number: 89302	
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ___	Shipment Iced? Y

Dry Weight = Dry Weight, VOA = CLP TCL Volatiles

TR Number: 5-433491573-060506-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

ENVIRON(.TAL PROTECTION AGENCY
Office of Enforcement

RE(5
77 West Jackson Boulevard
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.: 35383
PROJECT NAME: Dunaran Oil
Activity Code:

SAMPLERS: *(Print Name and Sign)* Lance L. Range [signature]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Analyte: VOA	Dry Weight					TAG NUMBERS
SED01	5/31/06	1025		X	S103	1	X						5-277427 ~~5-277428~~
SED02	"	"		X	S103	1	X						5-277428
SED03	5/31/06	1035		X	S109	1	X						5-277429
SED04	"	"		X	S109	1	X						5-277430
SED05	"	1050		X	S110	1	X						5-277431
SED06	"	1050		X	S110	1	X						5-277432
SED07	"	1110		X	S104	1	X						5-277433
SED08	"	1110		X	S104	1	X						5-277434
SED09	"	"		X	S105	1	X						5-277435
SED10	"	"		X	S105	1	X						5-277436
SOIL01	"	1145		X	X117	1	X						5-277437
DW01	"	"		X	X117	1		X					5-277438
SOIL02	"	1150		X	X118	1	X						5-277439 ms/msd
DW02	"	1150		X	X118	1		X					5-277440

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
[signature]	5/31/06 1400	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)* — Date / Time

Ship To: Datachem Lab Incorp.
960 W. Levoy Dr
Salt Lake City, Utah 84123
ATTN: Roxanne Olsen

Airbill Number: 12 621 589 22 1002 594 5

Chain of Custody Seal Numbers: 89302

Distribution: White - Accompanies Shipment; Pink - Coordinator Field Files; Yellow - Laboratory File

Printed on Recycled Paper/Printed with Soy-Based Ink

5-27578

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: May 25, 2006

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE Name: Dunavan Oil (IL)

Case Number: 35229 SDG Number: E0001

Number and Type of Samples: 20 (soil) (VOA, SV)

Sample Numbers: E0001 through E0009, E0014 through E0019 and E0027 through E0031

Laboratory: Envirosystems Inc. Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0001
Laboratory: Envirosystems

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Twenty (20) soil samples, numbered E0001 through E0009, E0014 through E0019 and E0027 through E0031 were collected on April 5, 11 and 12, 2006. The lab received the samples on April 12 to 14, 2006 in good condition. The samples E0001 through E0009, E0014 through E0019 and E0027 through E0031 were analyzed for low level Semivolatile list of organic analytes. The samples E0001 through E0009, E0014 through E0019, E0027 and E0028 were analyzed for low level Volatile list of organic analytes. All samples were analyzed according to CLP SOW SOM01.1 (5/2005). The samples were validated according to USEPA CLP National Functional Guidelines for Superfund Organic Methods Data Review (1/2005).

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0001
Laboratory: Envirosystems

1. HOLDING TIME

No defects were found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

The following volatile samples associated with the opening and closing calibration the data should be qualified as "R" since the closing CCV was unable to be determined.

E0001, E0002, E0003, E0004, E0005, E0006, E0007, E0008, E0009, E0014, E0015, E0016, E0017, E0017RE, E0018, E0019, E0027, E0028, VBLKHI, VBLKHU

3. CALIBRATION

The following volatile samples are associated with the opening continuing calibration percent difference (%D) outside primary criteria. The results are qualified "R" because the closing CCV was not performed.

Bromomethane
E0001, E0002, E0003, E0004, E0005, E0006, E0007, E0008, E0009, VBLKHU

The following volatile samples are associated with a continuing calibration in which a SMC/DMC exceeded percent difference (%D) criteria. No action is taken on the DMC %RSD and RRF data alone.

2-Butanone-d5
E0001, E0002, E0003, E0004, E0005, E0006, E0007, E0008, E0009, VBLKHU

The following semivolatile samples are associated with the opening continuing calibration whose corresponding initial calibration has relative response factors (RRFs) outside primary criteria. Hits are flagged "J" and non-detects are qualified "R".

Pentachlorophenol
E0001, E0002, E0003, E0004, E0005, E0005MS, E0005MSD, E0006, E0007, E0008, E0009, E0014, E0015, E0016, E0017, E0018, E0019, E0027, E0028, E0029, E0030, E0030DL, E0031, SBLK11, SBLK15, SBLK19

The following semivolatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits and non-detects are qualified in the previous statement.

Pentachlorophenol
E0001, E0002, E0003, E0004, E0005, E0005MS, E0005MSD, E0006, E0007, E0008,

E0009, E0014, E0015, E0016, E0017, E0018, E0019, E0027, E0028, E0029, E0030, E0030DL, E0031, SBLK11, SBLK15, SBLK19

The following semivolatile samples are associated with the closing continuing calibration percent difference (%D) outside primary criteria. Detected results for the compound were not reported in the samples and non-detected results should be qualified "UJ".

3,3'-Dichlorobenzidine
E0005MS, E0005MSD, E0009, E0014, E0016, E0027, E0028

The following semivolatile samples are associated with the closing continuing calibration percent difference (%D) outside primary criteria. Detected results for the compound were not reported in the samples and non-detected results should be qualified "R" due to poor Deuterated Monitoring Compound recovery.

3,3'-Dichlorobenzidine
E0015, E0018

4. BLANKS

The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to two times (2X) the CRQL. Hits are elevated to the CRQL . The results are qualified "R" because the closing CCV was not performed.

Methylene Chloride
E0001, E0002, E0003, E0004, E0005, E0006, E0007, E0008, E0009

There was no instrument blank run after highly contaminated semivolatile sample. Hits are qualified "J".

E0017, E0030DL
Phenanthrene, Fluoranthene, Pyrene, Benzo (a) anthracene, Chrysene

5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY

The following volatile samples have Deuterated Monitoring Compound recoveries above the QC limits. The results are qualified "R" because the closing CCV was not performed.

E0008, E0009
Trichlorofluoromethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Methyl Acetate, Methylene Chloride, Methyl-tert-butyl ether, 1,1,1-Trichloroethane, Carbon Tetrachloride, 1,2-Dichloroethane, 1,2-Dibromoethane

The following semivolatile water samples have Deuterated Monitoring Compound

recoveries below the QC limits. Hits should be qualified "J" and non-detects are qualified "UJ".

E0001
Benzo (b) fluoranthene, Benzo (k) fluoranthene, Benzo (a) pyrene, Indeno (1,2,3-cd) pyrene, Dibenzo (a,h) anthracene, Benzo (g,h,i) perylene

E0014
Fluoranthene, Pyrene, Benzo (a) anthracene, Chrysene, Benzo (b) fluoranthene, Benzo (k) fluoranthene, Benzo (a) pyrene, Indeno (1,2,3-cd) pyrene, Dibenzo (a,h) anthracene, Benzo (g,h,i) perylene

The following semivolatile samples have 0% recoveries for a Deuterated Monitoring Compound. There are no detects to qualify non-detects are qualified "R".

E0004, E0015, E0018, E0029, E0031
4-Chloroaniline, Hexachlorocyclopentadiene, 3,3'-Dichlorobenzidine

The following diluted semivolatile sample has recoveries above the QC criteria for Deuterated Monitoring Compounds. Region 5 protocol is when the sample has a dilution factor of 5 or greater no action is taken.

E0030DL
Bis (2-Chloroethyl) ether, 2,2'-oxybis (1-chloropropane), bis (2-Chloroethoxy) methane, Naphthalene, 2-Methylnaphthalene, 2-Chloronaphthaleene, 2-Nitroaniline, Acenaphthylene, 3-Nitroaniline, Acenaphthene, 2,4-Dinitrophenol, 4-Nitrophenol, Dibenzofuran, Fluorene, 4-Chlorophenyl-phenylether, 4-Nitroaniline, 4-Bromophenyl-phenylether, Carbazole

The following diluted semivolatile sample has recoveries below the QC criteria for Deuterated Monitoring Compounds. Region 5 protocol is when the sample has a dilution factor of 5 or greater no action is taken.

E0030DL
4-Chloroaniline, Hexachlorocyclopentadiene, 3,3'-Dichlorobenzidine

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No defects were found.

7. FIELD BLANK AND FIELD DUPLICATE

There are no Field Blanks or Field Duplicates with this data package. Results are not qualified based upon the results of the field duplicates.

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0001
Laboratory: Envirosystems

8. INTERNAL STANDARDS

The following volatile samples have the area count below the QC criteria. The results are qualified "R" because the closing CCV was not performed.

E0006, E0009, E0018, E0027
Bromoform, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

E0008, E0028
Dichlorodifluoromethane, Chloromethane, Vinyl Chloride, Bromomethane, Chloroethane, Trichlorofluoromethane, 1,1-Dichloroethene, 1,1,2-Trichloro-1,2,2-trifluoroethane, Acetone, Carbon Disulfide, Methyl Acetate, Methylene Chloride, trans-1,2-Dichloroethene, Methyl tert-butyl ether, 1,1-Dichloroethane, cis-1,2-Dichloroethene, 2-Butanone, Bromochloromethane, Chloroform, 1,1,1-Trichloroethane, Cyclohexane, Carbon Tetrachloride, Benzene, 1,2-Dichloroethane, 1,4-Dioxane, Trichloroethene, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane, cis-1,3-Dichloropropene, 4-Methyl-2-pentanone, Toluene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, Tetrachloroethene, 2-Hexanone, Dibromochloromethane, 1,2-Dibromomethane, Chlorobenzene, Ethylbenzene, o-Xylene, m,p-Xylene, Styrene, Bromoform, Isopropylbenzene, 1,1,2,2-Tetrachloroethane, 1,3-Dichlorobenzene,1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

E0017RE, E0019
1,1,1-Trichloroethane, Cyclohexane, Carbon Tetrachloride, Benzene, Trichloroethene, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane, cis-1,3-Dichloropropene, 4-Methyl-2-pentanone, Toluene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, Tetrachloroethene, 2-Hexanone, Dibromochloromethane, 1,2-Dibromomethane, Chlorobenzene, Ethylbenzene, o-Xylene, m,p-Xylene, Styrene, Bromoform, Isopropylbenzene, 1,1,2,2-Tetrachloroethane, 1,3-Dichlorobenzene,1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA and SVOA compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL. The results are qualified "R" because the closing CCV was not performed.

CADRE has entered results in the EDD file for Benzo (e) Acephenanthrylene line 2242 and Benzo (b) fluoranthene line 2243 for the sample E0029 in the Semivolatile fraction. Benzo (e) Acephenanthrylene and Benzo (b) fluoranthene are the same compound having the same CAS number 205-99-2.

The following Semivolatile sample has analytes that exceeded the instruments calibration range. For any analyte that exceeded the calibration range the results are qualified as estimated "J". The results from the diluted sample should be considered the final concentration.

E0030
Phenanthrene, Fluoranthene, Pyrene, Benzo (a) anthracene, Chrysene

Semivolatile sample E0017 was reported at a dilution factor of 5.

CADRE did not list all the TICs for the samples. The end user should refer to the enclosed hard copy for the final results.

CADRE listed [2-Methylnaphthalene] line number 2002 and [Naphthalene, 2-Methyl-] line number 2001 are duplicate entries both on the EDD file for sample E0019 semivolatile fraction.

CADRE did not list the following semivolatile samples in the spreadsheets. The end user should refer to the hard copy enclosed for the results.

E0005MS, E0005MSD, E0030DL, SBLK11, SBLK15, SBLK19

CADRE used CLM04.3 CRQL values of 330 µg/Kg and 830 µg/Kg instead of SOM01.1 CRQL values of 170 µg/Kg and 330 µg/Kg for the semivolatile fraction. Detected values were corrected in the spreadsheets.

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present.)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: May 26, 2006

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE Name: Dunavan Oil (IL)

Case Number: 35229 SDG Number: E0032

Number and Type of Samples: 8 (soil) (SV)

Sample Numbers: E0032 through E0034 and E0036 through E0040

Laboratory: Envirosystems Inc. Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0032
Laboratory: Envirosystems

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Eight (8) soil samples, numbered E0032 through E0034 and E0036 through E0040 were collected on April 6 and 13, 2006. The lab received the samples on April 14, 2006 in good condition. The samples were analyzed for low level Semivolatile list of organic analytes. All samples were analyzed according to CLP SOW SOM01.1 (5/2005). The samples were validated according to USEPA CLP National Functional Guidelines for Superfund Organic Methods Data Review (1/2005).

Even though samples E0037 and E0038 had the same collection date and time, this reviewer did not regard them as duplicates.

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0032
Laboratory: Envirosystems

1. HOLDING TIME

The following Semivolatile sample was beyond the maximum holding time of fourteen (14) days from sample collection to extraction. The results are qualified "J" and non-detects are qualified "UJ".

E0033

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No defects were found.

3. CALIBRATION

The following Semivolatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria (20.0%). Hits are qualified "J" and non-detects are qualified "UJ".

Indeno (1,2,3-cd) pyrene (25.7%), **Dibenzo (a,h) anthracene** (27.4%)
E0032, E0033, E0034, E0036, E0037, E0038, E0038MS, E0038MSD, E0039, E0040, SBLK16

The following Semivolatile samples are associated with the closing continuing calibration percent difference (%D) outside primary criteria (50.0%). Detected results for this compound were not reported in the samples and the non-detected results should be qualified "UJ".

Dibenzo (a,h) anthracene (52.0%)
E0032, E0033, E0034, E0036, E0037, E0038, E0038MS, E0038MSD, E0039, E0040, SBLK16

4. BLANKS

The following Semivolatile samples have analyte concentrations reported below the CRQL and less than or equal to the associated Method Blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not qualified for samples E0032 and E0039. Hit is qualified "UJ" for sample E0033 because of holding time.

Acetophenone
E0032, E0033, E0039

The following Semivolatile samples have TIC concentration less than five times (5X) the associated Method Blank and is qualified "U".

E0032, E0039

5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY

The following Semivolatile sample has Deuterated Monitoring Compound recovery above the QC limits (1-121%). No action is taken since the compound 4,6-Dinitro-2-methylphenol was not detected in the sample.

E0033 (137%)
4,6-Dinitro-2-methylphenol

The following semivolatile water samples have Deuterated Monitoring Compound recoveries below the QC limits (1-145%). Detected results for these compounds were not reported in the samples and the non-detected results should be qualified "R".

E0036, E0039
4-Chloroaniline, Hexachlorocyclopentadiene, 3,3'-Dichlorobenzidine

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No defects were found.

7. FIELD BLANK AND FIELD DUPLICATE

There are no Field Blanks or Field Duplicates with this data package. Results are not qualified based upon the results of the field duplicates.

8. INTERNAL STANDARDS

No defects were found.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all SVOA compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following Semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E0032
2-Methylnaphthalene, Diethylphthalate, Phenanthrene, Fluoranthene, Pyrene, Benzo (a) anthracene, Chrysene

E0033
Isophorone, 1,1'-Biphenyl, Fluorene, bis (2-Ethylhexyl) phthalate

E0034
Naphthalene, Dibenzofuran, Anthracene

E0036
2-Methylnaphthalene, Phenanthrene

E0037
Phenanthrene

E0038MS
Phenanthrene, Di-n-butylphthalate

E0039
Di-n-butylphthalate

E0040
1,1'-Biphenyl, Fluorene, Anthracene, Di-n-butylphthalate, Benzo (a) anthracene, Chrysene

SBLK16
Acetophenone

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

12. ADDITIONAL INFORMATION

The Chain of Custody shows that the samples should be analyzed for Volatile and Semivolatile organic analytes. The laboratory only provided the Semivolatile target analytes in this package.

In accordance to the USEPA CLP National Functional Guidelines for Superfund Organic Methods Data Review (1/2005) all the Semivolatile results should be rejected because the closing CCV was beyond the 12 hour clock. However, the sample analyses were conducted within the 12 hour clock of the opening CCVs. The narrative states that the closing CCV was not injected within the 12 hour clock due to GC/MS stoppage at night.

The closing CCV was done immediately the following morning in order to track the instrument's stability. The closing CCV had only one (1) compound greater than 50% and is discussed in the Calibration section of this narrative; therefore, no action should be taken since the laboratory demonstrated the instrument's continued stability. A copy of the BNA GC/MS Instrument Injection Log is included with the hard copy data for this SDG.

The following semivolatile samples list semivolatile target analytes as TICs. Hit are qualified "J".

E0034
2-Methylnaphthalene

CADRE did not print the results for the following Semivolatile samples. The end user should refer to the hard copy Form 1s.

E0038MS, E0038MSD, SBLK16

CADRE did not print out all the Semivolatile TICs found in each sample. The end user should refer to the enclosed hard copy for the results.

There are no sample tags with this package. Log sheet DC-1 states that the sample tags were present. The sample tags were located with case number 35229 sdg E0001.

In the EDD electronic file sample E0034 CADRE listed the compound twice as [Naphthalene, 2-Methyl-] EDD line 157 and [2-Methylnaphthene] EDD line 158. Both [Naphthalene, 2-Methyl-] and [2-Methylnaphthene] are the same compound having the same CAS number. This caused the results to be reported one off. This reviewer has entered the correct flags for the compounds.

CADRE used OLM04.3 CRQL values of 330 µg/Kg and 830 µg/Kg instead of SOM01.1 CRQL values of 170 µg/Kg and 330 µg/Kg for the Semivolatile fraction. Detected values were corrected in the spreadsheets.

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present.)

DATE: May 31, 2006

IEPA
Attn: Mr. Bob Casper
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

SITE NAME: Dunavan Oil (IL)

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
35229	Sentinel	16	ME0001	soil

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: **U.S. EPA - Region 5**
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

JUN 06 2006

Sent By: Pat Johnson
Data Coordinator
ESAT Region 5 **TechLaw**

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: May 31, 2006

SUBJECT: Review of Data
Received for Review on May 4, 2006

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for this case. We have also reviewed the CADRE generated validation files.

SITE NAME: Dunavan Oil

CASE NUMBER: 35229 SDG NUMBER:

Number and Type of Samples: 16 soils

Sample Numbers: ME0001-9,14-19,27

Laboratory: Sentinel Hrs. for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Case Number: 35229
Site Name: Dunavan Oil

SDG Number: ME0001
Laboratory: Sentinel

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Sixteen soil samples numbered ME0001-9, ME0014-19, and ME0027 were collected on April 5-12, 2006. The lab received the samples on April 14, 2006. The temperature of one sample cooler was 1 degree C upon receipt. All samples were analyzed for metals and cyanide. All samples were analyzed using CLP SOW ILM05.3 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectrometric procedure.

The reviewer corrected sample results and flags on form 1.

Case Number: 35229
Site Name: Dunavan Oil

SDG Number: ME0001
Laboratory: Sentinel

1. HOLDING TIME:

The following inorganic cyanide samples did not meet primary holding time criteria. Non-detects are qualified "R".

ME0014, ME0015

The following inorganic soil samples were reviewed for holding time violations using criteria developed for water samples.

ME0001, ME0002, ME0003, ME0004, ME0005, ME0006, ME0007, ME0008
ME0009, ME0014, ME0015, ME0016, ME0017, ME0018, ME0019, ME0027

2. CALIBRATIONS:

No defects were found for the calibration or the CRQL standard.

3. BLANKS:

The following inorganic samples are associated with an ICB/CCB concentration which is greater than the MDL but less than or equal to the CRQL. The detected sample result is also less than or equal to the CRQL. Hits are qualified "U". The sample result is raised to the CRQL.

Beryllium
ME0001, ME0002, ME0003, ME0004, ME0005, ME0006, ME0007
ME0008, ME0009, ME0014, ME0015, ME0016, ME0017, ME0018
ME0019, ME0027

Thallium
ME0001, ME0002, ME0003, ME0004, ME0005, ME0006, ME0007
ME0008, ME0009, ME0014, ME0015, ME0016, ME0017, ME0019
ME0027

Cyanide
ME0001, ME0002, ME0003, ME0004, ME0005, ME0006, ME0007
ME0008, ME0014, ME0015, ME0016, ME0017, ME0019, ME0027

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

The following inorganic samples are associated with a matrix spike recovery which is less than the primary low limit. Non-detects are flagged "UJ".

Beryllium
ME0001, ME0002, ME0003, ME0004, ME0005, ME0006, ME0007
ME0008, ME0009, ME0014, ME0015, ME0016, ME0017, ME0018
ME0019, ME0027

Cadmium
ME0001, ME0003, ME0004, ME0005, ME0006, ME0008, ME0009
ME0015, ME0016, ME0017, ME0018, ME0027

Selenium
ME0001, ME0002, ME0006, ME0008, ME0009, ME0014, ME0015
ME0016, ME0027

Thallium
ME0001, ME0002, ME0003, ME0004, ME0005, ME0006, ME0007

ME0008, ME0009, ME0014, ME0015, ME0016, ME0017, ME0018
ME0019, ME0027

The following inorganic samples are associated with a matrix spike recovery which is less than the primary low limit. However, the post-digest spike percent recovery was greater than or equal to the low limit. Detects are flagged "J".

Arsenic
ME0001, ME0002, ME0003, ME0004, ME0005, ME0006, ME0007
ME0008, ME0009, ME0014, ME0015, ME0016, ME0017, ME0018
ME0019, ME0027

Barium
ME0001, ME0002, ME0003, ME0004, ME0005, ME0006, ME0007
ME0008, ME0009, ME0014, ME0015, ME0016, ME0017, ME0018
ME0019, ME0027

Cadmium
ME0002, ME0007, ME0014, ME0019

Chromium
ME0001, ME0002, ME0003, ME0004, ME0005, ME0006, ME0007
ME0008, ME0009, ME0014, ME0015, ME0016, ME0017, ME0018
ME0019, ME0027

Cobalt
ME0001, ME0002, ME0003, ME0004, ME0005, ME0006, ME0007
ME0008, ME0009, ME0014, ME0015, ME0016, ME0017, ME0018
ME0019, ME0027

Copper
ME0001, ME0002, ME0003, ME0004, ME0005, ME0006, ME0007
ME0008, ME0009, ME0014, ME0015, ME0016, ME0017, ME0018
ME0019, ME0027

Lead
ME0001, ME0002, ME0003, ME0004, ME0005, ME0006, ME0007
ME0008, ME0009, ME0014, ME0015, ME0016, ME0017, ME0018
ME0019, ME0027

Nickel
ME0001, ME0002, ME0003, ME0004, ME0005, ME0006, ME0007
ME0008, ME0009, ME0014, ME0015, ME0016, ME0017, ME0018
ME0019, ME0027

Selenium
ME0003, ME0004, ME0005, ME0007, ME0017, ME0018, ME0019

Vanadium
ME0001, ME0002, ME0003, ME0004, ME0005, ME0006, ME0007
ME0008, ME0009, ME0014, ME0015, ME0016, ME0017, ME0018
ME0019, ME0027

Zinc
ME0001, ME0002, ME0003, ME0004, ME0005, ME0006, ME0007
ME0008, ME0009, ME0014, ME0015, ME0016, ME0017, ME0018
ME0019, ME0027

The following inorganic samples are associated with a matrix spike recovery which is less than the expanded low limit. However, the post-digest spike percent recovery was greater than or equal to the low limit. Detects are flagged "J" and non-detects are flagged "UJ".

Antimony
ME0001, ME0002, ME0003, ME0004, ME0005, ME0006, ME0007
ME0008, ME0009, ME0014, ME0015, ME0016, ME0017, ME0018
ME0019, ME0027

Manganese
ME0001, ME0002, ME0003, ME0004, ME0005, ME0006, ME0007
ME0008, ME0009, ME0014, ME0015, ME0016, ME0017, ME0018
ME0019, ME0027

5. LABORATORY AND FIELD DUPLICATE

The following inorganic samples are associated with duplicate results which did not meet relative percent difference (RPD) primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Calcium
ME0001, ME0002, ME0003, ME0004, ME0005, ME0006, ME0007
ME0008, ME0009, ME0014, ME0015, ME0016, ME0017, ME0018
ME0019, ME0027

Chromium
ME0001, ME0002, ME0003, ME0004, ME0005, ME0006, ME0007
ME0008, ME0009, ME0014, ME0015, ME0016, ME0017, ME0018
ME0019, ME0027

Magnesium
ME0001, ME0002, ME0003, ME0004, ME0005, ME0006, ME0007
ME0008, ME0009, ME0014, ME0015, ME0016, ME0017, ME0018
ME0019, ME0027

Manganese
ME0001, ME0002, ME0003, ME0004, ME0005, ME0006, ME0007
ME0008, ME0009, ME0014, ME0015, ME0016, ME0017, ME0018
ME0019, ME0027

6. ICP ANALYSIS

The following inorganic samples are associated with an ICP serial dilution percent difference which is not in control. The serial dilution result is greater than the sample result indicating a potential negative interference. Hits are qualified "J" and non-detects are qualified "UJ".

Calcium
ME0001, ME0002, ME0003, ME0004, ME0005, ME0006, ME0007
ME0008, ME0009, ME0014, ME0015, ME0016, ME0017, ME0018
ME0019, ME0027

Iron
ME0001, ME0002, ME0003, ME0004, ME0005, ME0006, ME0007
ME0008, ME0009, ME0014, ME0015, ME0016, ME0017, ME0018
ME0019, ME0027

Nickel
ME0001, ME0002, ME0003, ME0004, ME0005, ME0006, ME0007
ME0008, ME0009, ME0014, ME0015, ME0016, ME0017, ME0018
ME0019, ME0027

The following results are associated with an interference check A standard which exhibited false negative concentration values for the trace elements. The sample contains aluminum, calcium, iron, or magnesium at a level comparable to the absolute value of the ICSA false negative. Hits are qualified "J-" and non-detects are qualified "UJ".

Lead
ME0001, ME0003, ME0004, ME0005, ME0006, ME0007
ME0008, ME0009, ME0014, ME0015, ME0019

Silver
ME0001, ME0002, ME0003, ME0004, ME0005, ME0006, ME0007
ME0008, ME0009, ME0014, ME0015, ME0016, ME0017
ME0019, ME0027

Zinc
ME0001, ME0003, ME0017

The following results are associated with samples which contained elements at levels greater than the linear range of the instrument. The sample was diluted and reanalyzed, and the high-level analytes were reported from the diluted analysis. However, the trace elements were reported from the original analysis. For some elements, significant discrepancies exist between the original and adjusted diluted results. Hits are qualified "J".

ME0014
Aluminum, Barium, Calcium, Chromium, Cobalt, Iron
Potassium, Magnesium, Nickel, Vanadium, Zinc

7. GFAA ANALYSIS

No GFAA analyses were performed for this case.

8. SAMPLE RESULTS

The following inorganic samples have analyte concentrations greater than the method detection limit but less than the quantitation limit (CRQL). These results are qualified "J".

ME0001
Cobalt, Sodium

ME0002
Barium, Cadmium, Cobalt, Sodium

ME0003
Selenium, Sodium

ME0004
Cobalt, Potassium, Selenium, Sodium

ME0005
Barium, Cobalt, Selenium, Sodium

ME0006
Antimony, Barium, Cobalt, Sodium

Case Number: 35229
Site Name: Dunavan Oil

SDG Number: ME0001
Laboratory: Sentinel

ME0007
Barium, Cadmium, Selenium, Sodium

ME0008
Antimony, Barium, Cobalt, Sodium

ME0009
Barium, Cobalt, Sodium

ME0014
Cadmium, Sodium

ME0015
Barium, Cobalt, Sodium

ME0016
Antimony, Sodium

ME0017
Potassium, Selenium, Sodium

ME0018
Barium, Cobalt, Potassium, Selenium, Sodium, Vanadium

ME0019
Cadmium, Cobalt, Selenium, Sodium

ME0027
Antimony, Barium, Cobalt, Sodium

All data, except those qualified above, are acceptable.

Reviewed by: J. Ganz

Date: May 31, 2006

Case Number: 35229
Site Name: Dunavan Oil

SDG Number: ME0001
Laboratory: Sentinel

ILM05.3 Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Reviewed by: J. Ganz

Date: May 31, 2006

Analytical Results (Qualified Data)

Case # 35229	SDG ME0001		
Site	DUNAVAN OIL	Number of Soil Samples	16
Lab	SENTIN	Number of Water Samples	0
Reviewer	J GANZ		
Date	MAY 31, 2006		

Sample Number	ME0001		ME0002		ME0003		ME0004		ME0005	
Sampling Location	X101		X102		X103		X104		X105	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled	4/11/2006		4/11/2006		4/11/2006		4/11/2006		4/11/2006	
Time Sampled	08 45		10 00		10.50		11 35		12 15	
%Solids	80 8		88 4		84 4		85 0		88 8	
Dilution Factor	1 0		1 0		1.0		1 0		1 0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	5890		3110		6930		5450		3040	
ANTIMONY	7.4	UJ	6.8	UJ	7.1	UJ	7.1	UJ	6.8	UJ
ARSENIC	3 2	J	3 6	J	2.4	J	3.5	J	4 1	J
BARIUM	38.8	J	16.3	J	7.69	J	47 0	J	14.5	J
BERYLLIUM	0 62	UJ	0 57	UJ	0.59	UJ	0 59	UJ	0.56	UJ
CADMIUM	0.62	UJ	0 072	J	0.59	UJ	0.59	UJ	0.56	UJ
CALCIUM	24500	J	43100	J	1840	J	1390	J	43200	J
CHROMIUM	9 1	J	6.1	J	1.5	J	8.7	J	6 0	J
COBALT	5 1	J	4 8	J	6 9	J	2 5	J	4 4	J
COPPER	9.5	J	10.6	J	11.8	J	10.0	J	11.9	J
IRON	11200	J	9820	J	10400	J	9590	J	9650	J
LEAD	5.6	J-	10.6	J-	5.8	J-	4.8	J-	7.7	J-
MAGNESIUM	17000	J	17000	J	2440	J	1280	J	20900	J
MANGANESE	434	J	401	J	95	J	97.3	J	345	J
MERCURY	0 12	U	0.11	U	0.12	U	0 12	U	0 11	U
NICKEL	15.9	J	13.0	J	5.6	J	9.8	J	11.2	J
POTASSIUM	1130		742		851		402	J	665	
SELENIUM	4.3	UJ	4.0	UJ	0.45	J	0.45	J	0.48	J
SILVER	1 2	UJ	1 1	UJ	1.2	UJ	1 2	UJ	1 1	UJ
SODIUM	243	J	236	J	262	J	295	J	261	J
THALLIUM	3 1	UJ	2 8	UJ	3 0	UJ	2 9	UJ	2 8	UJ
VANADIUM	12.4	J	16.0	J	12.1	J	10.4	J	6.1	J
ZINC	26 4	J-	35 9	J	24.9	J-	29 4	J	38 8	J
CYANIDE	3 1	U	2 8	U	3.0	U	2.9	U	2.8	U

Analytical Results (Qualified Data)

Case # 35229	SDG ME0001
Site	DUNAVAN OIL
Lab	SENTIN
Reviewer	J GANZ
Date	MAY 31 2006

Sample Number	ME0006		ME0007		ME0008		ME0009		ME0014	
Sampling Location	X106		X107		X108		X109		X110	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled	4/11/2006		4/11/2006		4/11/2006		4/11/2006		4/5/2006	
Time Sampled	13 10		14 00		15:05		15 40		08 50	
%Solids	88 5		86 1		86.9		84.7		85 0	
Dilution Factor	1 0		1 0		1 0		1 0		1 0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	3440		3420		3580		4880		3920	J
ANTIMONY	0.53	J	7.0	UJ	0.39	J	7.1	UJ	7.1	UJ
ARSENIC	3 4	J	3 4	J	3.8	J	3 9	J	2 7	J
BARIUM	11.9	J	21.0	J	21.0	J	17.2	J	24.6	J
BERYLLIUM	0 56	UJ	0.58	UJ	0 58	UJ	0 59	UJ	0 59	UJ
CADMIUM	0.56	UJ	0.58	J	0.58	UJ	0.59	UJ	0.59	J
CALCIUM	36100	J	24900	J	25700	J	64100	J	19600	J
CHROMIUM	6.6	J	6 1	J	7.0	J	8.6	J	7.4	J
COBALT	5 1	J	12 8	J	5 0	J	5 8	J	21 2	J
COPPER	9.9	J	9.1	J	10.4	J	19.9	J	8.5	J
IRON	9520	J	19200	J	9890	J	14200	J	16000	J
LEAD	6 5	J-	5.9	J-	6.3	J-	5.6	J-	6.8	J-
MAGNESIUM	17700	J	12700	J	13000	J	22700	J	11100	J
MANGANESE	304	J	999	J	307	J	346	J	7370	J
MERCURY	0 11	U	0.12	U	0 12	U	0 12	U	0 12	U
NICKEL	11.6	J	16.8	J	13.5	J	14.8	J	27.1	J
POTASSIUM	786		666		762		1040		781	J
SELENIUM	4.0	UJ	0.58	J	4.0	UJ	4.1	UJ	4.1	UJ
SILVER	1 1	UJ	1 2	UJ	1 2	UJ	1 2	UJ	1 2	UJ
SODIUM	217	J	314	J	239	J	251	J	241	J
THALLIUM	2 8	UJ	2 9	UJ	2.9	UJ	3 0	UJ	2 9	UJ
VANADIUM	6.4	J	5 9	J	6.1	J	13.0	J	7.2	J
ZINC	30 3	J	61 3	J	34 2	J	36.5	J	46 7	J
CYANIDE	2 8	U	2 9	U	2.8	U	3.0	U	2 9	R

Analytical Results (Qualified Data)

Case # 35229	SDG ME0001
Site	DUNAVAN OIL
Lab	SENTIN
Reviewer	J GANZ
Date	MAY 31 2006

Sample Number	ME0015		ME0016		ME0017		ME0018		ME0019	
Sampling Location	X111		X112		X113		S101		S102	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled	4/5/2006		4/12/2006		4/12/2006		4/12/2006		4/12/2006	
Time Sampled	09 50		09 50		10 40		12 30		12 20	
%Solids	88 4		89 0		78 8		50 1		72 6	
Dilution Factor	1 0		1 0		1 0		1.0		1 0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	3290		4000		4230		3470		4560	
ANTIMONY	6.8	UJ	0.50	J	7.6	UJ	12.0	UJ	8.3	UJ
ARSENIC	3 0	J	4 1	J	2.4	J	4 0	J	4 5	J
BARIUM	14 2	J	24.4	J	38.3	J	29.4	J	30.9	J
BERYLLIUM	0 57	UJ	0 56	UJ	0.63	UJ	1 0	UJ	0 69	UJ
CADMIUM	0.57	UJ	0.56	UJ	0.63	UJ	1.0	UJ	0.14	J
CALCIUM	35100	J	59800	J	2990	J	12600	J	15700	J
CHROMIUM	6 3	J	9.0	J	16.1	J	6.0	J	8.1	J
COBALT	4 3	J	5 6	J	7.1	J	3 9	J	6 7	J
COPPER	10.0	J	12.8	J	7.9	J	9 8	J	11.4	J
IRON	9260	J	11600	J	7800	J	8350	J	12500	J
LEAD	7 0	J-	8.9	J	14.6	J	7.5	J	9.1	J-
MAGNESIUM	17600	J	36600	J	1300	J	4760	J	8280	J
MANGANESE	309	J	398	J	711	J	209	J	325	J
MERCURY	0 11	U	0.11	U	0 13	U	0 20	U	0 14	U
NICKEL	11.2	J	13.9	J	18.4	J	8.8	J	15.6	J
POTASSIUM	789		910		537	J	781	J	826	
SELENIUM	4.0	UJ	3.9	UJ	0.43	J	1.1	J	0.55	J
SILVER	1 1	UJ	1.1	UJ	1.3	UJ	2 0	U	1.4	UJ
SODIUM	229	J	261	J	218	J	366	J	315	J
THALLIUM	2 8	UJ	2 8	UJ	3.2	UJ	5 0	UJ	3 4	UJ
VANADIUM	6 4	J	8.6	J	12.3	J	8.3	J	9.4	J
ZINC	32 0	J	42.2	J	25 4	J	30 7	J	43.8	J
CYANIDE	2 8	R	2 8	U	3.2	UJ	5.0	U	3 4	U

Analytical Results (Qualified Data)

Case # 35229	SDG ME0001
Site	DUNAVAN OIL
Lab	SENTIN
Reviewer	J GANZ
Date	MAY 31, 2006

Sample Number	ME0027									
Sampling Location	X114									
Matrix	Soil									
Units	mg/Kg									
Date Sampled	4/12/2006									
Time Sampled	13 55									
%Solids	85 4									
Dilution Factor	1 0									
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	3210									
ANTIMONY	0.45	J								
ARSENIC	3 0	J								
BARIUM	16.0	J								
BERYLLIUM	0 59	UJ								
CADMIUM	0.59	UJ								
CALCIUM	29500	J								
CHROMIUM	6 1	J								
COBALT	4 3	J								
COPPER	9.7	J								
IRON	8590	J								
LEAD	11.3	J								
MAGNESIUM	12800	J								
MANGANESE	259	J								
MERCURY	0 12	U								
NICKEL	10.8	J								
POTASSIUM	697									
SELENIUM	4.1	UJ								
SILVER	1 2	UJ								
SODIUM	227	J								
THALLIUM	2 9	UJ								
VANADIUM	6 1	J								
ZINC	31.2	J								
CYANIDE	2 9	U								

QC EXCEPTION SUMMARY REPORT

CASE\SAS#: 35229
SITE: Dunavan Oil
MATRIX: Soil
WATER SAMPLE SPK:
DATA SET: ME0001
LAB: Sentinel
CONC: low
WATER SAMPLE DUP:
LAB QC #
REVIEWED BY: J. Ganz
SOIL SAMPLE SPK:
DATE: May 25, 2006
SOIL SAMPLE DUP:

FORM #		FORM 2	FORM 2	FORM 3	FORM 3	FORM 3	FORM 4	FORM 5	FORM 6	FORM 7	FORM 7	FORM 9	FORM 9	FORM 6	FORM 5	FIELD	FIELD	FIELD	FIELD		
ELEMENT	SOLID TIME	INITIAL CALIB	CONTIN CALIB	CALIB BLANK	PREP WATER BLANK	PREP SOIL BLANK	ICS %R	SOIL SPIKE %R	SOIL DUP RPD	LCS AQ	LCS SOIL	SERIAL DILUTION AQUEOUS	SERIAL DILUTION SOIL	AQ DUP RPD	AQ SPIKE %R	BLANK	DUP RPD	BLANK	DUP RPD	GFAA DUP	GFAA ANALYT SPIKE
ALUMINUM								all Ps ok													
ANTIMONY								25													
ARSENIC								61													
BARIUM								65													
BERYLLIUM				0.36				62													
CADMIUM								68													
CALCIUM									66				23								
CHROMIUM								53	37												
COBALT							ok	61													
COPPER							~~105/15~~	60													
IRON													11								
LEAD							-2.1/5	62													
MAGNESIUM									91												
MANGANESE								-22	36												
MERCURY																					
NICKEL							133/10	59					11								
POTASSIUM																					
SELENIUM								69													
SILVER							-3.4														
SODIUM																					
THALLIUM				8.5				68													
TIN								ok													
VANADIUM								59													
ZINC							21.5/39	53													
CYANIDE				1.6/2.8																	

Be: all
Tl all exc 18
[illegible]

all 14: Al, Ba, Ca, Co, Cr, Fe, K, Mg, Ni, V, Zn
ICSA: Pb 1,3,4,5,6,7,8,9,14,5,9 As 1,2-all except 18
[illegible]

Holding ~~time~~
CN: 14, 15 (20 days)
[illegible]

1°C cooler

ESAT 3 060 0

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 35229
DAS No:
SDG No: ME0001

L

Date Shipped:	4/13/2006
Carrier Name:	UPS
Airbill:	1Z6215892210024197
Shipped to:	Sentinel Inc. 116 Washington Street, NE Huntsville AL 35801 (256) 534-9800

Chain of Custody Record

Sampler Signature: Lance Range

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	4/13/06 1200	MW	04/14/06 0934
2		Matt Wolf	
3			
4			

For Lab Use Only

Lab Contract No:	68D04007
Unit Price:	110.00
Transfer To:	
Lab Contract No:	
Unit Price:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME0001	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	304152 (1)	X101	S: 4/11/2006	8:45	E0001	
ME0002	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	304155 (1)	X102	S: 4/11/2006	10:00	E0002	
ME0003	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	304160 (1)	X103	S: 4/11/2006	10:50	E0003	
ME0004	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	304164 (1)	X104	S: 4/11/2006	11:35	E0004	
ME0005	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	304168 (1)	X105	S: 4/11/2006	12:15	E0005	
ME0006	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	304172 (1)	X106	S: 4/11/2006	13:10	E0006	
ME0007	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	304176 (1)	X107	S: 4/11/2006	14:00	E0007	
ME0008	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	304180 (1)	X108	S: 4/11/2006	15:05	E0008	
ME0009	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	304184 (1)	X109	S: 4/11/2006	15:40	E0009	
ME0014	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263364 (1)	X110	S: 4/5/2006	8:50	E0014	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	ME0016, ME0024, ME0038		3.0, 1.0 °C	82821 - 82822

Analysis Key: **Concentration:** L = Low, M = Low/Medium, H = High **Type/Designate:** Composite = C, Grab = G

Custody Seal Intact? Y **Shipment Iced?** Y

CN = Cyanide, TM/Hg = CLP TAL Total Metals/Hg

TR Number: 5-314975591-041306-0003

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 35229
DAS No:
SDG No: ME0001

L

Date Shipped:	4/13/2006
Carrier Name:	UPS
Airbill:	1Z6215892210024197
Shipped to:	Sentinel Inc. 116 Washington Street, NE Huntsville AL 35801 (256) 534-9800

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	4/13/06 1200	MW	04/14/06
2		Matt Wolt	0934
3			
4			

Sampler Signature: [illegible]

For Lab Use Only

Lab Contract No: 68W04007
Unit Price: 110.00
Transfer To:
Lab Contract No:
Unit Price:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME0015	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263366 (1)	X111	S: 4/5/2006	9:50	E0015	
ME0016	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263370 (1)	X112	S: 4/12/2006	9 50	E0016	
ME0017	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263374 (1)	X113	S: 4/12/2006	10:40	E0017	
ME0018	Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263378 (1)	S101	S: 4/12/2006	12:30	E0018	
ME0019	Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263382 (1)	S102	S: 4/12/2006	12.20	E0019	
ME0022	Potable Well/ Lance Range	L/G	CN (21), TM/Hg (21)	263297 (HNO3), 263298 (NaOH) (2)	Field Blank	S 4/12/2006	14 30	E0022	
ME0023	Potable Well/ Lance Range	L/G	CN (21)	263976 (NaOH) (1)	G104	S 4/12/2006	14 20	E0023	
ME0024	Potable Well/ Lance Range	L/G	CN (21)	263986 (NaOH) (1)	G189	S: 4/12/2006	14:20	E0024	
ME0025	Potable Well/ Lance Range	L/G	CN (21), TM/Hg (21)	263995 (HNO3), 263996 (NaOH) (2)	G105	S 4/5/2006	14:50	E0025	
ME0027	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263451 (1)	X114	S 4/12/2006	13.55	E0027	

Copy - ME0010 Original Documents Are Included In CSF

Signature

04/18/06 Date

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC: ME0016, ME0024, ME0038	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3.0, 1.0°C	Chain of Custody Seal Number: 82821-82822
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

CN = Cyanide, TM/Hg = CLP TAL Total Metals/Hg

TR Number: 5-314975591-041306-0003

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819, Phone 703/818-4200; Fax

USEPA - CLP

MAY 0 4 2006

COVER PAGE

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

SOW No.: ILM05.3

EPA SAMPLE NO.	Lab Sample ID.
ME0001	19700
ME0002	19701
ME0003	19702
ME0004	19703
ME0005	19704
ME0006	19705
ME0007	19706
ME0008	19707
ME0009	19708
ME0014	19709
ME0015	19710
ME0016	19711
ME0016D	19711S2
ME0016S	19711MS
ME0017	19712
ME0018	19713
ME0019	19714
ME0027	19715

Were ICP interelement corrections applied? Yes/No YES
Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name: BAKilgore

Date: 5/2/06 Title: QMOR

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0001

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Matrix: (soil/water) SOIL Lab Sample ID: 19700

Level: (low/med) LOW Date Received: 04/14/2006

% Solids: 80.8

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	5890		*	P	
7440-36-0	Antimony	7.4	U	N	P	
7440-38-2	Arsenic	3.2		N	P	
7440-39-3	Barium	38.8		N	P	
7440-41-7	Beryllium	0.62 ~~0.30~~	~~J~~ U	N	P	gt
7440-43-9	Cadmium	0.62	U	N	P	
7440-70-2	Calcium	24500		*E	P	
7440-47-3	Chromium	9.1		N*	P	
7440-48-4	Cobalt	5.1	J	N	P	
7440-50-8	Copper	9.5		N*	P	
7439-89-6	Iron	11200		*E	P	
7439-92-1	Lead	5.6		N	P	
7439-95-4	Magnesium	17000		*	P	
7439-96-5	Manganese	434		N*	P	
7439-97-6	Mercury	0.12	U		CV	
7440-02-0	Nickel	15.9		NE	P	
7440-09-7	Potassium	1130			P	
7782-49-2	Selenium	4.3	U	N	P	
7440-22-4	Silver	1.2	U		P	
7440-23-5	Sodium	243	J		P	
7440-28-0	Thallium	3.1 ~~1.5~~	~~J~~ U	N	P	gt
7440-62-2	Vanadium	12.4		N	P	
7440-66-6	Zinc	26.4		N*	P	
57-12-5	Cyanide	3.1 ~~0.091~~	~~J~~ U		AS	gt

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0002

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Matrix: (soil/water) SOIL Lab Sample ID: 19701

Level: (low/med) LOW Date Received: 04/14/2006

% Solids: 88.4

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	3110		*	P	
7440-36-0	Antimony	6.8	U	N	P	
7440-38-2	Arsenic	3.6		N	P	
7440-39-3	Barium	16.3	J	N	P	
7440-41-7	Beryllium	0.57 ~~0.18~~	~~J~~ U	N	P	
7440-43-9	Cadmium	0.072	J	N	P	
7440-70-2	Calcium	43100		*E	P	
7440-47-3	Chromium	6.1		N*	P	
7440-48-4	Cobalt	4.8	J	N	P	
7440-50-8	Copper	10.6		N*	P	
7439-89-6	Iron	9820		*E	P	
7439-92-1	Lead	10.6		N	P	
7439-95-4	Magnesium	17000		*	P	
7439-96-5	Manganese	401		N*	P	
7439-97-6	Mercury	0.11	U		CV	
7440-02-0	Nickel	13.0		NE	P	
7440-09-7	Potassium	742			P	
7782-49-2	Selenium	4.0	U	N	P	
7440-22-4	Silver	1.1	U		P	
7440-23-5	Sodium	236	J		P	
7440-28-0	Thallium	2.8 ~~1.1~~	~~J~~ U	N	P	
7440-62-2	Vanadium	6.0		N	P	
7440-66-6	Zinc	35.9		N*	P	
57-12-5	Cyanide	2.8 ~~0.078~~	~~J~~ U		AS	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM IA-IN ILM05.3

11

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0003

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Matrix: (soil/water) SOIL Lab Sample ID: 19702

Level: (low/med) LOW Date Received: 04/14/2006

% Solids: 84.4

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	6930		*	P	
7440-36-0	Antimony	7.1	U	N	P	
7440-38-2	Arsenic	2.4		N	P	
7440-39-3	Barium	769		N	P	
7440-41-7	Beryllium	0.59 ~~0.40~~	~~J~~	U N	P	gh
7440-43-9	Cadmium	0.59	U	N	P	
7440-70-2	Calcium	1840		*E	P	
7440-47-3	Chromium	11.9		N*	P	
7440-48-4	Cobalt	6.9		N	P	
7440-50-8	Copper	11.8		N*	P	
7439-89-6	Iron	10400		*E	P	
7439-92-1	Lead	6.8		N	P	
7439-95-4	Magnesium	2440		*	P	
7439-96-5	Manganese	355		N*	P	
7439-97-6	Mercury	0.12	U		CV	
7440-02-0	Nickel	15.6		NE	P	
7440-09-7	Potassium	851			P	
7782-49-2	Selenium	0.45	J	N	P	
7440-22-4	Silver	1.2	U		P	
7440-23-5	Sodium	262	J		P	
7440-28-0	Thallium	3.0 ~~0.99~~	~~J~~	U N	P	gh
7440-62-2	Vanadium	12.7		N	P	
7440-66-6	Zinc	24.9		N*	P	
57-12-5	Cyanide	3.0 ~~0.078~~	~~J~~	U	AS	gh

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0004

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Matrix: (soil/water) SOIL Lab Sample ID: 19703

Level: (low/med) LOW Date Received: 04/14/2006

% Solids: 85.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5450		*	P
7440-36-0	Antimony	7.1	U	N	P
7440-38-2	Arsenic	3.5		N	P
7440-39-3	Barium	47.0		N	P
7440-41-7	Beryllium	0.59 ~~0.28~~	~~J~~	U N	P
7440-43-9	Cadmium	0.59	U	N	P
7440-70-2	Calcium	1390		*E	P
7440-47-3	Chromium	8.7		N*	P
7440-48-4	Cobalt	2.5	J	N	P
7440-50-8	Copper	10.0		N*	P
7439-89-6	Iron	9590		*E	P
7439-92-1	Lead	4.8		N	P
7439-95-4	Magnesium	1280		*	P
7439-96-5	Manganese	97.3		N*	P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	9.8		NE	P
7440-09-7	Potassium	402	J		P
7782-49-2	Selenium	0.45	J	N	P
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	295	J		P
7440-28-0	Thallium	2.9 ~~1.3~~	~~J~~	U N	P
7440-62-2	Vanadium	10.4		N	P
7440-66-6	Zinc	29.4		N*	P
57-12-5	Cyanide	2.9 ~~0.074~~	~~J~~	U	AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0005

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Matrix: (soil/water) SOIL Lab Sample ID: 19704

Level: (low/med) LOW Date Received: 04/14/2006

% Solids: 88.8

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	3040		*	P	
7440-36-0	Antimony	6.8	U	N	P	
7440-38-2	Arsenic	4.1		N	P	
7440-39-3	Barium	14.5	J	N	P	
7440-41-7	Beryllium	0.56 ~~0.16~~	~~J~~ U	N	P	
7440-43-9	Cadmium	0.56	U	N	P	
7440-70-2	Calcium	43200		*E	P	
7440-47-3	Chromium	6.0		N*	P	
7440-48-4	Cobalt	4.4	J	N	P	
7440-50-8	Copper	11.9		N*	P	
7439-89-6	Iron	9650		*E	P	
7439-92-1	Lead	7.7		N	P	
7439-95-4	Magnesium	20900		*	P	
7439-96-5	Manganese	345		N*	P	
7439-97-6	Mercury	0.11	U		CV	
7440-02-0	Nickel	11.2		NE	P	
7440-09-7	Potassium	665			P	
7782-49-2	Selenium	0.48	J	N	P	
7440-22-4	Silver	1.1	U		P	
7440-23-5	Sodium	261	J		P	
7440-28-0	Thallium	2.8 ~~0.72~~	~~J~~ U	N	P	
7440-62-2	Vanadium	6.1		N	P	
7440-66-6	Zinc	38.8		N*	P	
57-12-5	Cyanide	2.8 ~~0.063~~	~~J~~ U		AS	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0006

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Matrix: (soil/water) SOIL Lab Sample ID: 19705

Level: (low/med) LOW Date Received: 04/14/2006

% Solids: 88.5

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	3440		*	P	
7440-36-0	Antimony	0.53	J	N	P	
7440-38-2	Arsenic	3.4		N	P	
7440-39-3	Barium	11.9	J	N	P	
7440-41-7	Beryllium	0.56 ~~0.17~~	~~J~~ U	N	P	gh
7440-43-9	Cadmium	0.56	U	N	P	
7440-70-2	Calcium	36100		*E	P	
7440-47-3	Chromium	6.6		N*	P	
7440-48-4	Cobalt	5.1	J	N	P	
7440-50-8	Copper	9.9		N*	P	
7439-89-6	Iron	9520		*E	P	
7439-92-1	Lead	6.5		N	P	
7439-95-4	Magnesium	17700		*	P	
7439-96-5	Manganese	304		N*	P	
7439-97-6	Mercury	0.11	U		CV	
7440-02-0	Nickel	11.6		NE	P	
7440-09-7	Potassium	786			P	
7782-49-2	Selenium	4.0	U	N	P	
7440-22-4	Silver	1.1	U		P	
7440-23-5	Sodium	217	J		P	
7440-28-0	Thallium	2.8 ~~1.1~~	~~J~~ U	N	P	gh
7440-62-2	Vanadium	6.4		N	P	
7440-66-6	Zinc	30.3		N*	P	
57-12-5	Cyanide	2.8 ~~0.12~~	~~J~~ U		AS	gh

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0007

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Matrix: (soil/water) SOIL Lab Sample ID: 19706

Level: (low/med) LOW Date Received: 04/14/2006

% Solids: 86.1

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	3420		*	P	
7440-36-0	Antimony	7.0	U	N	P	
7440-38-2	Arsenic	3.4		N	P	
7440-39-3	Barium	21.0	J	N	P	
7440-41-7	Beryllium	0.58 ~~0.33~~	~~J~~	U N	P	gs
7440-43-9	Cadmium	0.20	J	N	P	
7440-70-2	Calcium	24900		*E	P	
7440-47-3	Chromium	6.1		N*	P	
7440-48-4	Cobalt	12.8		N	P	
7440-50-8	Copper	9.1		N*	P	
7439-89-6	Iron	19200		*E	P	
7439-92-1	Lead	5.9		N	P	
7439-95-4	Magnesium	12700		*	P	
7439-96-5	Manganese	999		N*	P	
7439-97-6	Mercury	0.12	U		CV	
7440-02-0	Nickel	16.8		NE	P	
7440-09-7	Potassium	666			P	
7782-49-2	Selenium	0.58	J	N	P	
7440-22-4	Silver	1.2	U		P	
7440-23-5	Sodium	314	J		P	
7440-28-0	Thallium	2.9 ~~2.3~~	~~J~~	U N	P	gs
7440-62-2	Vanadium	5.9		N	P	
7440-66-6	Zinc	61.3		N*	P	
57-12-5	Cyanide	2.9 ~~0.051~~	~~J~~	U	AS	gs

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0008

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Matrix: (soil/water) SOIL Lab Sample ID: 19707

Level: (low/med) LOW Date Received: 04/14/2006

% Solids: 86.9

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	3580		*	P	
7440-36-0	Antimony	0.48	J	N	P	
7440-38-2	Arsenic	3.8		N	P	
7440-39-3	Barium	21.9	J	N	P	
7440-41-7	Beryllium	0.58 ~~0.20~~	~~J~~ U	N	P	JK
7440-43-9	Cadmium	0.58	U	N	P	
7440-70-2	Calcium	25700		*E	P	
7440-47-3	Chromium	7.0		N*	P	
7440-48-4	Cobalt	5.0	J	N	P	
7440-50-8	Copper	10.4		N*	P	
7439-89-6	Iron	9890		*E	P	
7439-92-1	Lead	6.9		N	P	
7439-95-4	Magnesium	13000		*	P	
7439-96-5	Manganese	307		N*	P	
7439-97-6	Mercury	0.12	U		CV	
7440-02-0	Nickel	11.8		NE	P	
7440-09-7	Potassium	762			P	
7782-49-2	Selenium	4.0	U	N	P	
7440-22-4	Silver	1.2	U		P	
7440-23-5	Sodium	239	J		P	
7440-28-0	Thallium	2.9 ~~0.70~~	~~J~~ U	N	P	JK
7440-62-2	Vanadium	8.4		N	P	
7440-66-6	Zinc	34.2		N*	P	
57-12-5	Cyanide	2.9 ~~0.070~~	~~J~~ U		AS	JK

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0009

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Matrix: (soil/water) SOIL Lab Sample ID: 19708

Level: (low/med) LOW Date Received: 04/14/2006

% Solids: 84.7

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	4880		*	P	
7440-36-0	Antimony	7.1	U	N	P	
7440-38-2	Arsenic	3.9		N	P	
7440-39-3	Barium	17.2	J	N	P	
7440-41-7	Beryllium	0.59 ~~0.25~~	~~J~~ U	N	P	gt
7440-43-9	Cadmium	0.59	U	N	P	
7440-70-2	Calcium	64100		*E	P	
7440-47-3	Chromium	8.6		N*	P	
7440-48-4	Cobalt	5.8	J	N	P	
7440-50-8	Copper	19.9		N*	P	
7439-89-6	Iron	14200		*E	P	
7439-92-1	Lead	5.6		N	P	
7439-95-4	Magnesium	22700		*	P	
7439-96-5	Manganese	346		N*	P	
7439-97-6	Mercury	0.12	U		CV	
7440-02-0	Nickel	14.8		NE	P	
7440-09-7	Potassium	1040			P	
7782-49-2	Selenium	4.1	U	N	P	
7440-22-4	Silver	1.2	U		P	
7440-23-5	Sodium	251	J		P	
7440-28-0	Thallium	3.0 ~~1.1~~	~~J~~ U	N	P	gt
7440-62-2	Vanadium	13.0		N	P	
7440-66-6	Zinc	36.5		N*	P	
57-12-5	Cyanide	3.0	U		AS	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0014

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Matrix: (soil/water) SOIL Lab Sample ID: 19709

Level: (low/med) LOW Date Received: 04/14/2006

% Solids: 85.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3920		*	P
7440-36-0	Antimony	7.1	U	N	P
7440-38-2	Arsenic	2.7		N	P
7440-39-3	Barium	24.6		N	P
7440-41-7	Beryllium	0.59 ~~0.34~~	~~J~~ U	N	P
7440-43-9	Cadmium	0.48	J	N	P
7440-70-2	Calcium	19600		*E	P
7440-47-3	Chromium	7.4		N*	P
7440-48-4	Cobalt	21.2		N	P
7440-50-8	Copper	8.5		N*	P
7439-89-6	Iron	16000		*E	P
7439-92-1	Lead	6.8		N	P
7439-95-4	Magnesium	11100		*	P
7439-96-5	Manganese	7370		N*D	P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	27.1		NE	P
7440-09-7	Potassium	781			P
7782-49-2	Selenium	4.1	U	N	P
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	241	J		P
7440-28-0	Thallium	2.9 ~~1.7~~	~~J~~ U	N	P
7440-62-2	Vanadium	7.2		N	P
7440-66-6	Zinc	46.7		N*	P
57-12-5	Cyanide	2.9 ~~0.071~~	~~J~~ U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM IA-IN ILM05.3

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0015

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Matrix: (soil/water) SOIL Lab Sample ID: 19710

Level: (low/med) LOW Date Received: 04/14/2006

% Solids: 88.4

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	3290		*	P	
7440-36-0	Antimony	6.8	U	N	P	
7440-38-2	Arsenic	3.0		N	P	
7440-39-3	Barium	14.2	J	N	P	
7440-41-7	Beryllium	0.57 ~~0.17~~	~~J~~ U	N	P	~~J~~
7440-43-9	Cadmium	0.57	U	N	P	
7440-70-2	Calcium	35100		*E	P	
7440-47-3	Chromium	6.3		N*	P	
7440-48-4	Cobalt	4.3	J	N	P	
7440-50-8	Copper	10.0		N*	P	
7439-89-6	Iron	9260		*E	P	
7439-92-1	Lead	7.0		N	P	
7439-95-4	Magnesium	17600		*	P	
7439-96-5	Manganese	309		N*	P	
7439-97-6	Mercury	0.11	U		CV	
7440-02-0	Nickel	11.2		NE	P	
7440-09-7	Potassium	789			P	
7782-49-2	Selenium	4.0	U	N	P	
7440-22-4	Silver	1.1	U		P	
7440-23-5	Sodium	229	J		P	
7440-28-0	Thallium	2.8 ~~0.53~~	~~J~~ U	N	P	~~J~~
7440-62-2	Vanadium	6.4		N	P	
7440-66-6	Zinc	32.0		N*	P	
57-12-5	Cyanide	2.8 ~~0.090~~	~~J~~ U		AS	~~J~~

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM IA-IN ILM05.3

20

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0016

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Matrix: (soil/water) SOIL Lab Sample ID: 19711

Level: (low/med) LOW Date Received: 04/14/2006

% Solids: 89.0

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	4000		*	P	
7440-36-0	Antimony	0.50	J	N	P	
7440-38-2	Arsenic	4.1		N	P	
7440-39-3	Barium	24.4		N	P	
7440-41-7	Beryllium	0.56 ~~0.19~~	~~J~~ U	N	P	gh
7440-43-9	Cadmium	0.56	U	N	P	
7440-70-2	Calcium	59800		*E	P	
7440-47-3	Chromium	9.0		N*	P	
7440-48-4	Cobalt	5.6	J	N	P	
7440-50-8	Copper	12.8		N*	P	
7439-89-6	Iron	11600		*E	P	
7439-92-1	Lead	8.9		N	P	
7439-95-4	Magnesium	36600		*	P	
7439-96-5	Manganese	396		N*	P	
7439-97-6	Mercury	0.11	U		CV	
7440-02-0	Nickel	13.9		NE	P	
7440-09-7	Potassium	910			P	
7782-49-2	Selenium	3.9	U	N	P	
7440-22-4	Silver	1.1	U		P	
7440-23-5	Sodium	261	J		P	
7440-28-0	Thallium	2.8 ~~1.5~~	~~J~~ U	N	P	gh
7440-62-2	Vanadium	8.6		N	P	
7440-66-6	Zinc	42.2		N*	P	
57-12-5	Cyanide	2.8 ~~0.092~~	~~J~~ U		AS	gh

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0017

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Matrix: (soil/water) SOIL Lab Sample ID: 19712

Level: (low/med) LOW Date Received: 04/14/2006

% Solids: 78.8

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	4230		*	P	
7440-36-0	Antimony	7.6	U	N	P	
7440-38-2	Arsenic	2.4		N	P	
7440-39-3	Barium	98.3		N	P	
7440-41-7	Beryllium	0.63 ~~0.48~~	~~J~~ U	N	P	
7440-43-9	Cadmium	0.63	U	N	P	
7440-70-2	Calcium	2990		*E	P	
7440-47-3	Chromium	6.1		N*	P	
7440-48-4	Cobalt	7.1		N	P	
7440-50-8	Copper	7.9		N*	P	
7439-89-6	Iron	7800		*E	P	
7439-92-1	Lead	14.6		N	P	
7439-95-4	Magnesium	1300		*	P	
7439-96-5	Manganese	711		N*	P	
7439-97-6	Mercury	0.13	U		CV	
7440-02-0	Nickel	8.4		NE	P	
7440-09-7	Potassium	537	J		P	
7782-49-2	Selenium	0.43	J	N	P	
7440-22-4	Silver	1.3	U		P	
7440-23-5	Sodium	218	J		P	
7440-28-0	Thallium	3.2 ~~1.0~~	~~J~~ U	N	P	
7440-62-2	Vanadium	12.3		N	P	
7440-66-6	Zinc	25.4		N*	P	
57-12-5	Cyanide	3.2 ~~0.092~~	~~J~~ U		AS	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0018

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Matrix: (soil/water) SOIL Lab Sample ID: 19713

Level: (low/med) LOW Date Received: 04/14/2006

% Solids: 50.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3470		*	P
7440-36-0	Antimony	12.0	U	N	P
7440-38-2	Arsenic	4.0		N	P
7440-39-3	Barium	29.4	J	N	P
7440-41-7	Beryllium	1.0 ~~0.27~~	~~J~~ U	N	P
7440-43-9	Cadmium	1.0	U	N	P
7440-70-2	Calcium	12600		*E	P
7440-47-3	Chromium	6.0		N*	P
7440-48-4	Cobalt	3.9	J	N	P
7440-50-8	Copper	9.8		N*	P
7439-89-6	Iron	8350		*E	P
7439-92-1	Lead	7.5		N	P
7439-95-4	Magnesium	4760		*	P
7439-96-5	Manganese	209		N*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.8		NE	P
7440-09-7	Potassium	781	J		P
7782-49-2	Selenium	1.1	J	N	P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	366	J		P
7440-28-0	Thallium	5.0	U	N	P
7440-62-2	Vanadium	8.3	J	N	P
7440-66-6	Zinc	30.7		N*	P
57-12-5	Cyanide	5.0	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0019

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Matrix: (soil/water) SOIL Lab Sample ID: 19714

Level: (low/med) LOW Date Received: 04/14/2006

% Solids: 72.6

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	4560		*	P	
7440-36-0	Antimony	8.3	U	N	P	
7440-38-2	Arsenic	4.5		N	P	
7440-39-3	Barium	30.9		N	P	
7440-41-7	Beryllium	0.69 ~~0.33~~	~~J~~ U	N	P	gs
7440-43-9	Cadmium	0.14	J	N	P	
7440-70-2	Calcium	15700		*E	P	
7440-47-3	Chromium	8.1		N*	P	
7440-48-4	Cobalt	6.7	J	N	P	
7440-50-8	Copper	11.4		N*	P	
7439-89-6	Iron	12500		*E	P	
7439-92-1	Lead	9.1		N	P	
7439-95-4	Magnesium	8280		*	P	
7439-96-5	Manganese	325		N*	P	
7439-97-6	Mercury	0.14	U		CV	
7440-02-0	Nickel	15.6		NE	P	
7440-09-7	Potassium	826			P	
7782-49-2	Selenium	0.55	J	N	P	
7440-22-4	Silver	1.4	U		P	
7440-23-5	Sodium	315	J		P	
7440-28-0	Thallium	3.4 ~~1.1~~	~~J~~ U	N	P	gs
7440-62-2	Vanadium	9.4		N	P	
7440-66-6	Zinc	43.8		N*	P	
57-12-5	Cyanide	3.4 ~~0.15~~	~~J~~ U		AS	gs

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0027

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Matrix: (soil/water) SOIL Lab Sample ID: 19715

Level: (low/med) LOW Date Received: 04/14/2006

% Solids: 85.4

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	3210		*	P	
7440-36-0	Antimony	0.45	J	N	P	
7440-38-2	Arsenic	3.0		N	P	
7440-39-3	Barium	16.0	J	N	P	
7440-41-7	Beryllium	0.59 ~~0.18~~	~~J~~ U	N	P	gh
7440-43-9	Cadmium	0.59	U	N	P	
7440-70-2	Calcium	29500		*E	P	
7440-47-3	Chromium	6.1		N*	P	
7440-48-4	Cobalt	4.3	J	N	P	
7440-50-8	Copper	9.7		N*	P	
7439-89-6	Iron	8590		*E	P	
7439-92-1	Lead	11.3		N	P	
7439-95-4	Magnesium	12800		*	P	
7439-96-5	Manganese	259		N*	P	
7439-97-6	Mercury	0.12	U		CV	
7440-02-0	Nickel	10.8		NE	P	
7440-09-7	Potassium	697			P	
7782-49-2	Selenium	4.1	U	N	P	
7440-22-4	Silver	1.2	U		P	
7440-23-5	Sodium	227	J		P	
7440-28-0	Thallium	2.9 ~~0.82~~	~~J~~ U	N	P	gh
7440-62-2	Vanadium	6.1		N	P	
7440-66-6	Zinc	31.2		N*	P	
57-12-5	Cyanide	2.9 ~~0.11~~	~~J~~ U		AS	gh

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

USEPA - CLP

3-IN
BLANKS

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	200.000	U	200.000	U	200.000	U	200.000	U	20.000	U	P
Antimony	60.000	U	60.000	U	60.000	U	60.000	U	6.000	U	P
Arsenic	10.000	U	10.000	U	10.000	U	10.000	U	1.000	U	P
Barium	200.000	U	200.000	U	200.000	U	200.000	U	20.000	U	P
Beryllium	0.223	J	5.000	U	0.301	J	0.259	J	0.500	U	P
Cadmium	5.000	U	5.000	U	5.000	U	5.000	U	0.500	U	P
Calcium	5000.000	U	5000.000	U	125.273	J	119.900	J	35.321	J	P
Chromium	10.000	U	10.000	U	10.000	U	2.155	J	1.000	U	P
Cobalt	50.000	U	50.000	U	50.000	U	50.000	U	5.000	U	P
Copper	25.000	U	25.000	U	25.000	U	25.000	U	1.718	J	P
Iron	100.000	U	18.664	J	33.893	J	55.925	J	9.895	J	P
Lead	10.000	U	10.000	U	10.000	U	10.000	U	1.000	U	P
Magnesium	5000.000	U	34.404	J	62.233	J	75.731	J	500.000	U	P
Manganese	15.000	U	15.000	U	0.865	J	1.085	J	1.500	U	P
Mercury	-0.160	J	-0.130	J	-0.110	J	-0.160	J	-0.055	J	CV
Nickel	40.000	U	40.000	U	40.000	U	40.000	U	4.000	U	P
Potassium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	500.000	U	P
Selenium	35.000	U	35.000	U	35.000	U	35.000	U	3.500	U	P
Silver	10.000	U	10.000	U	10.000	U	10.000	U	1.000	U	P
Sodium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	500.000	U	P
Thallium	8.515	J	25.000	U	25.000	U	25.000	U	2.500	U	P
Vanadium	50.000	U	50.000	U	50.000	U	50.000	U	5.000	U	P
Zinc	60.000	U	60.000	U	60.000	U	60.000	U	1.941	J	P
Cyanide	0.960	J	1.450	J	0.840	J	1.620	J	0.041	J	AS

USEPA - CLP

3-IN
BLANKS

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			200.000	U							P
Antimony			60.000	U							P
Arsenic			10.000	U							P
Barium			200.000	U							P
Beryllium			0.360	J							P
Cadmium			5.000	U							P
Calcium			102.421	J							P
Chromium			10.000	U							P
Cobalt			50.000	U							P
Copper			25.000	U							P
Iron			40.008	J							P
Lead			10.000	U							P
Magnesium			66.752	J							P
Manganese			1.763	J							P
Mercury			-0.140	J							CV
Nickel			40.000	U							P
Potassium			5000.000	U							P
Selenium			35.000	U							P
Silver			10.000	U							P
Sodium			5000.000	U							P
Thallium			25.000	U							P
Vanadium			50.000	U							P
Zinc			60.000	U							P
Cyanide	2.770	J	0.950	J	10.000	U			0.135	J	AS

USEPA - CLP

3-IN
BLANKS

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic	10.000	U	10.000	U	10.000	U					P
Barium	1.606	J	1.692	J	1.297	J					P
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium	10.000	U	10.000	U	10.000	U					P
Cobalt											NR
Copper	25.000	U	25.000	U	25.000	U					P
Iron											NR
Lead	10.000	U	10.000	U	10.000	U					P
Magnesium											NR
Manganese	15.000	U	15.000	U	1.123	J					P
Mercury											NR
Nickel	40.000	U	40.000	U	40.000	U					P
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium	50.000	U	50.000	U	50.000	U					P
Zinc	60.000	U	60.000	U	60.000	U					P
Cyanide											NR

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

ICP-AES Instrument ID: P3 ICS Source: EPA ICSA0503

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	%R	Initial Found Sol. AB	%R	Final Found Sol. A	%R	Final Found Sol. AB	%R
Aluminum	244000	248000	266000	109	257000	104	251000	103	253000	102
Antimony	0	585	1.0		617	105	2.0		610	104
Arsenic	0	97.0	-0.84		100	103	0.34		99.6	103
Barium	2.0	475	1.9	95	520	109	1.7	85	522	110
Beryllium	0	482	0.16		483	100	0.38		479	99
Cadmium	0	916	0.050		990	108	0.12		985	108
Calcium	234000	234000	250000	107	239000	102	238000	102	236000	101
Chromium	36.0	506	42.1	117	518	102	39.4	109	509	101
Cobalt	3.0	455	2.8	93	486	107	2.8	93	481	106
Copper	15.0	537	12.4	83	523	97	10.6	71	512	95
Iron	94900	95100	103000	109	98700	104	97700	103	97300	102
Lead	5.0	51.0	-0.99	-20	47.3	93	-2.1	-42	49.7	97
Magnesium	249000	254000	277000	111	264000	104	261000	105	260000	102
Manganese	19.0	483	21.3	112	521	108	21.1	111	512	106
Nickel	10.0	930	13.3	133	996	107	12.7	127	979	105
Potassium	0	0	22.1		19.1		24.0		22.5	
Selenium	0	51.0	5.8		51.9	102	1.2		52.7	103
Silver	0	210	-2.1		210	100	-2.8		207	99
Sodium	0	0	702		2570		442		2810	
Thallium	0	96.0	16.1		114	119	15.3		110	115
Vanadium	1.0	481	-0.29	-29	494	103	0.089	9	486	101
Zinc	39.0	975	23.3	60	992	102	22.1	57	981	101

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

ICP-AES Instrument ID: P3 ICS Source: EPA ICSA0503

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found %R	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found %R	Final Found Sol. AB	Final Found %R
Aluminum	244000	248000					252000	103	245000	99
Antimony	0	585					-1.3		586	100
Arsenic	0	97.0					-2.4		95.6	99
Barium	2.0	475					1.4	70	510	107
Beryllium	0	482					0.25		462	96
Cadmium	0	916					0.23		962	105
Calcium	234000	234000					237000	101	228000	97
Chromium	36.0	506					39.0	108	490	97
Cobalt	3.0	455					2.8	93	465	102
Copper	15.0	537					10.5	70	494	92
Iron	94900	95100					97100	102	93500	98
Lead	5.0	51.0					-1.5	-30	46.2	91
Magnesium	249000	254000					259000	104	249000	98
Manganese	19.0	483					22.3	117	494	102
Nickel	10.0	930					12.8	128	941	101
Potassium	0	0					19.8		26.2	
Selenium	0	51.0					-2.6		50.2	98
Silver	0	210					-3.4		199	95
Sodium	0	0					566		2670	
Thallium	0	96.0					9.5		97.9	102
Vanadium	1.0	481					-0.22	-22	467	97
Zinc	39.0	975					21.5	55	948	97

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

ICP-AES Instrument ID: P3 ICS Source: EPA ICSA0503

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	%R	Initial Found Sol. AB	%R	Final Found Sol. A	%R	Final Found Sol. AB	%R
Aluminum	244000	248000	262000	107	252000	102	253000	104	242000	98
Antimony										
Arsenic	0	97.0	-0.62		99.2	102	0.95		94.5	97
Barium	2.0	475	3.4	170	518	109	2.7	135	509	107
Beryllium										
Cadmium										
Calcium	234000	234000	247000	106	235000	100	238000	102	226000	97
Chromium	36.0	506	41.3	115	506	100	39.6	110	485	96
Cobalt	3.0	455	3.9	130	478	105	2.9	97	462	102
Copper	15.0	537	13.0	87	512	95	12.0	80	489	91
Iron	94900	95100	102000	107	97100	102	98100	103	93000	98
Lead	5.0	51.0	1.1	22	48.9	96	1.4	28	46.7	92
Magnesium	249000	254000	273000	110	258000	102	261000	105	247000	97
Manganese	19.0	483	21.1	111	510	106	21.6	114	488	101
Nickel	10.0	930	13.6	136	971	104	12.7	127	932	100
Potassium										
Selenium										
Silver										
Sodium										
Thallium										
Vanadium	1.0	481	-0.20	-20	483	100	-0.36	-36	462	96
Zinc	39.0	975	24.4	63	974	100	22.6	58	939	96

USEPA - CLP

5A-IN
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME0016S

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Matrix: (soil/water) SOIL Level: (low/med) LOW

% Solids for Sample: 89.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	6.1519	J	0.5012	J	22.47	25	N	P
Arsenic	75-125	9.6547		4.1367		8.99	61	N	P
Barium	75-125	317.9234		24.4030		449.44	65	N	P
Beryllium	75-125	7.1080		0.1874	J	11.24	62	N	P
Cadmium	75-125	7.6205		0.5618	U	11.24	68	N	P
Calcium									NR
Chromium	75-125	32.9375		9.0003		44.94	53	N	P
Cobalt	75-125	73.5844		5.5565	J	112.36	61	N	P
Copper	75-125	46.6519		12.7627		56.18	60	N	P
Iron									NR
Lead	75-125	11.6801		8.8916		4.49	62	N	P
Magnesium									NR
Manganese	75-125	371.6466		396.4338		112.36	-22	N	P
Mercury	75-125	0.5562		0.1124	U	0.56	99		CV
Nickel	75-125	79.6701		13.8606		112.36	59	N	P
Potassium									NR
Selenium	75-125	7.7651		3.9326	U	11.24	69	N	P
Silver	75-125	8.8878		1.1236	U	11.24	79		P
Sodium									NR
Thallium	75-125	9.1197		1.4731	J	11.24	68	N	P
Vanadium	75-125	74.5467		8.5832		112.36	59	N	P
Zinc	75-125	101.8214		42.2048		112.36	53	N	P
Cyanide	75-125	4.8803		0.0921	J	5.62	85		AS

Comments:

USEPA - CLP

5B-IN
POST-DIGESTION SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME0016A

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Matrix: (soil/water) SOIL Level: (low/med) LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		113.20		4.46	J	120.0	91		P
Arsenic		97.17		36.82		73.6	82		P
Barium		601.62		217.19		434.4	88		P
Beryllium		10.74		1.67	J	10.0	91		P
Cadmium		9.03		5.00	U	10.0	90		P
Calcium									NR
Chromium		206.52		80.10		160.2	79		P
Cobalt		137.39		49.45	J	100.0	88		P
Copper		303.33		113.59		227.2	84		P
Iron									NR
Lead		204.17		79.14		158.3	79		P
Magnesium									NR
Manganese		9357.69		3528.26		7056.6	83		P
Nickel		411.17		123.36		246.7	117		P
Potassium									NR
Selenium		61.09		35.00	U	70.0	87		P
Silver									NR
Sodium									NR
Thallium		51.47		13.11	J	50.0	77		P
Vanadium		199.15		76.39		152.8	80		P
Zinc		946.53		375.62		751.2	76		P
Cyanide									NR

Comments:

USEPA - CLP

6-IN
DUPLICATES

EPA SAMPLE NO.

ME0016D

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Matrix: (soil/water) SOIL Level: (low/med) LOW

% Solids for Sample: 89.0 % Solids for Duplicate: 87.8

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		3996.3599		3059.1391		27	*	P
Antimony		0.5012	J	0.4947	J	1		P
Arsenic	1.1	4.1367		3.5108		16		P
Barium	22.5	24.4030		13.3508	J	59		P
Beryllium		0.1874	J	0.1719	J	9		P
Cadmium		0.5618	U	0.5618	U			P
Calcium		59792.4860		29962.5422		66	*	P
Chromium		9.0003		6.1636		37	*	P
Cobalt		5.5565	J	4.1531	J	29		P
Copper	2.8	12.7627		9.7122		27	*	P
Iron		11584.3210		8821.7337		27	*	P
Lead		8.8916		9.6056		8		P
Magnesium		36560.7005		13740.7514		91	*	P
Manganese		396.4338		276.8338		36	*	P
Mercury		0.1124	U	0.1124	U			CV
Nickel	4.5	13.8606		10.6418		26		P
Potassium	561.8	909.6917		715.3645		24		P
Selenium		3.9326	U	0.4712	J	200		P
Silver		1.1236	U	1.1236	U			P
Sodium		260.7072	J	244.3786	J	6		P
Thallium		1.4731	J	0.9493	J	43		P
Vanadium	5.6	8.5832		6.1888		32		P
Zinc	6.7	42.2048		31.3630		29	*	P
Cyanide		0.0921	J	0.0871	J	6		AS

USEPA - CLP

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

ME0016L

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Matrix: (soil/water) SOIL Level: (low/med) LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Aluminum	35567.60		39018.95		10		P
Antimony	4.46	J	300.00	U	100		P
Arsenic	36.82		38.72	J	5		P
Barium	217.19		225.76	J	4		P
Beryllium	1.67	J	1.44	J	14		P
Cadmium	5.00	U	25.00	U			P
Calcium	532153.13		655794.44		23	E	P
Chromium	80.10		88.10		10		P
Cobalt	49.45	J	51.79	J	5		P
Copper	113.59		132.47		17		P
Iron	103100.46		114055.64		11	E	P
Lead	79.14		89.42		13		P
Magnesium	325390.23		343965.80		6		P
Manganese	3528.26		3865.46		10		P
Nickel	123.36		136.71	J	11	E	P
Potassium	8096.26		8679.32	J	7		P
Selenium	35.00	U	21.65	J			P
Silver	10.00	U	50.00	U			P
Sodium	2320.29	J	6008.98	J	159		P
Thallium	13.11	J	125.00	U	100		P
Vanadium	76.39		82.77	J	8		P
Zinc	375.62		421.32		12		P

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Instrument Type: P Instrument ID: P3 Date: 01/15/2006

Preparation Method: NP1

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	308.20	200	74.5
Antimony	206.80	60	4.6
Arsenic	189.00	10	4.4
Barium	493.40	200	0.96
Beryllium	313.00	5	0.19
Cadmium	226.50	5	0.65
Calcium	317.90	5000	50.8
Chromium	267.70	10	1.1
Cobalt	228.60	50	1.5
Copper	324.70	25	1.4
Iron	271.40	100	18.1
Lead	220.30	10	3.3
Magnesium	279.00	5000	32.5
Manganese	257.60	15	0.41
Mercury		0.2	
Nickel	231.60	40	2.0
Potassium	766.40	5000	63.5
Selenium	196.00	35	4.8
Silver	328.00	10	2.0
Sodium	330.20	5000	343
Thallium	190.80	25	4.4
Vanadium	292.40	50	1.2
Zinc	206.20	60	2.9
Cyanide		10	

Comments:
P3: THERMO JARRELL ASH

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Instrument Type: P Instrument ID: P3 Date: 01/15/2006

Preparation Method: HS1

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	308.20	20	4.9
Antimony	206.80	6	0.36
Arsenic	189.00	1	0.28
Barium	493.40	20	0.11
Beryllium	313.00	0.5	0.014
Cadmium	226.50	0.5	0.058
Calcium	317.90	500	21.8
Chromium	267.70	1	0.11
Cobalt	228.60	5	0.17
Copper	324.70	2.5	0.83
Iron	271.40	10	4.4
Lead	220.30	1	0.34
Magnesium	279.00	500	10.1
Manganese	257.60	1.5	0.44
Mercury		0.1	
Nickel	231.60	4	0.12
Potassium	766.40	500	9.0
Selenium	196.00	3.5	0.34
Silver	328.00	1	0.15
Sodium	330.20	500	36.1
Thallium	190.80	2.5	0.46
Vanadium	292.40	5	0.077
Zinc	206.20	6	1.7
Cyanide		2.5	

Comments:
P3: THERMO JARRELL ASH

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Instrument Type: CV Instrument ID: C5 Date: 01/15/2006

Preparation Method: CS1

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		20	
Antimony		6	
Arsenic		1	
Barium		20	
Beryllium		0.5	
Cadmium		0.5	
Calcium		500	
Chromium		1	
Cobalt		5	
Copper		2.5	
Iron		10	
Lead		1	
Magnesium		500	
Manganese		1.5	
Mercury	253.70	0.1	0.025
Nickel		4	
Potassium		500	
Selenium		3.5	
Silver		1	
Sodium		500	
Thallium		2.5	
Vanadium		5	
Zinc		6	
Cyanide		2.5	

Comments:
C5: CETAC M6000

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Instrument Type: AS Instrument ID: C1 Date: 01/15/2006

Preparation Method: NP1

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		200	
Antimony		60	
Arsenic		10	
Barium		200	
Beryllium		5	
Cadmium		5	
Calcium		5000	
Chromium		10	
Cobalt		50	
Copper		25	
Iron		100	
Lead		10	
Magnesium		5000	
Manganese		15	
Mercury		0.2	
Nickel		40	
Potassium		5000	
Selenium		35	
Silver		10	
Sodium		5000	
Thallium		25	
Vanadium		50	
Zinc		60	
Cyanide	580.00	10	0.39

Comments:
C1: LACHAT

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Instrument Type: AS Instrument ID: C1 Date: 01/15/2006

Preparation Method: DS2

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		20	
Antimony		6	
Arsenic		1	
Barium		20	
Beryllium		0.5	
Cadmium		0.5	
Calcium		500	
Chromium		1	
Cobalt		5	
Copper		2.5	
Iron		10	
Lead		1	
Magnesium		500	
Manganese		1.5	
Mercury		0.1	
Nickel		4	
Potassium		500	
Selenium		3.5	
Silver		1	
Sodium		500	
Thallium		2.5	
Vanadium		5	
Zinc		6	
Cyanide	580.00	2.5	0.025

Comments:
C1: LACHAT

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Preparation Method: HS1

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	04/26/2006	1.00	100
ME0001	04/26/2006	1.00	100
ME0002	04/26/2006	1.00	100
ME0003	04/26/2006	1.00	100
ME0004	04/26/2006	1.00	100
ME0005	04/26/2006	1.00	100
ME0006	04/26/2006	1.00	100
ME0007	04/26/2006	1.00	100
ME0008	04/26/2006	1.00	100
ME0009	04/26/2006	1.00	100
ME0014	04/26/2006	1.00	100
ME0015	04/26/2006	1.00	100
ME0016	04/26/2006	1.00	100
ME0016D	04/26/2006	1.00	100
ME0016S	04/26/2006	1.00	100
ME0017	04/26/2006	1.00	100
ME0018	04/26/2006	1.00	100
ME0019	04/26/2006	1.00	100
ME0027	04/26/2006	1.00	100
PBS	04/26/2006	1.00	100

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Preparation Method: CS1

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CCB	04/25/2006		100
CCV	04/25/2006		100
CRI	04/25/2006		100
ICB	04/25/2006		100
ICV	04/25/2006		100
LCSS	04/25/2006	0.20	100
ME0001	04/25/2006	0.20	100
ME0002	04/25/2006	0.20	100
ME0003	04/25/2006	0.20	100
ME0004	04/25/2006	0.20	100
ME0005	04/25/2006	0.20	100
ME0006	04/25/2006	0.20	100
ME0007	04/25/2006	0.20	100
ME0008	04/25/2006	0.20	100
ME0009	04/25/2006	0.20	100
ME0014	04/25/2006	0.20	100
ME0015	04/25/2006	0.20	100
ME0016	04/25/2006	0.20	100
ME0016D	04/25/2006	0.20	100
ME0016S	04/25/2006	0.20	100
ME0017	04/25/2006	0.20	100
ME0018	04/25/2006	0.20	100
ME0019	04/25/2006	0.20	100
ME0027	04/25/2006	0.20	100
PBS	04/25/2006	0.20	100
S0	04/25/2006		100
S0.2	04/25/2006		100
S1.0	04/25/2006		100
S10.0	04/25/2006		100
S2.0	04/25/2006		100
S5.0	04/25/2006		100

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Preparation Method: DS2

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
ICV	04/24/2006		50
LCSS	04/24/2006	1.00	50
ME0001	04/24/2006	1.00	50
ME0002	04/24/2006	1.00	50
ME0003	04/24/2006	1.00	50
ME0004	04/24/2006	1.00	50
ME0005	04/24/2006	1.00	50
ME0006	04/24/2006	1.00	50
ME0007	04/24/2006	1.00	50
ME0008	04/24/2006	1.00	50
ME0009	04/24/2006	1.00	50
ME0014	04/24/2006	1.00	50
ME0015	04/24/2006	1.00	50
ME0016	04/24/2006	1.00	50
ME0016D	04/24/2006	1.00	50
ME0016S	04/24/2006	1.00	50
ME0017	04/24/2006	1.00	50
ME0018	04/24/2006	1.00	50
MIDRANGE	04/24/2006		50
PBS	04/24/2006	1.00	50

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Preparation Method: DS2

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
ICV	04/25/2006		50
LCSS	04/25/2006	1.00	50
ME0019	04/25/2006	1.00	50
ME0027	04/25/2006	1.00	50
MIDRANGE	04/25/2006		50
PBS	04/25/2006	1.00	50

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Instrument ID: P3 Analysis Method: P

Start date: 04/27/2006 End date: 04/27/2006

EPA Sample No.	D/F	Time	Analytes																							
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.0	1043	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
S	1.0	1049	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ICV	1.0	1055	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ICB	1.0	1100	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CRI	1.0	1106	_	X	X	_	X	X	_	X	X	X	_	X	_	X	_	X	_	X	X	_	X	X	X	_
ICSA	1.0	1111	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ICSAB	1.0	1117	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CCV	1.0	1123	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CCB	1.0	1128	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
PBS	1.0	1134	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
LCSS	1.0	1139	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0016L	5.0	1145	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0016	1.0	1150	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0016D	1.0	1156	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0016S	1.0	1202	_	X	X	X	X	X	_	X	X	X	_	X	_	X	_	X	_	X	X	_	X	X	X	_
ME0016A	1.0	1207	_	X	_	_	X	X	_	_	X	_	_	_	_	_	_	_	_	X	_	_	X	_	_	_
ME0001	1.0	1213	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0002	1.0	1218	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ZZZZZZ	1.0	1224	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
CCV	1.0	1229	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CCB	1.0	1235	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0003	1.0	1241	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0004	1.0	1246	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0005	1.0	1252	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0006	1.0	1257	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0007	1.0	1303	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0008	1.0	1309	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ZZZZZZ	1.0	1316	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
CRI	1.0	1321	_	X	X	_	X	X	_	X	X	X	_	X	_	X	_	X	_	X	X	_	X	X	X	_
ICSA	1.0	1327	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ICSAB	1.0	1333	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CCV	1.0	1338	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CCB	1.0	1344	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Instrument ID: P3 Analysis Method: P

Start date: 04/27/2006 End date: 04/27/2006

EPA Sample No.	D/F	Time	Analytes																							
			ALB	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ME0009	1.0	1349	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0014	1.0	1355	X	X	X	X	X	X	X	X	X	X	X	X	X	_	_	X	X	X	X	X	X	X	X	_
ME0015	1.0	1400	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0017	1.0	1406	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0018	1.0	1412	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0019	1.0	1417	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0027	1.0	1423	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CRI	1.0	1432	_	X	X	_	X	X	_	X	X	X	_	X	_	X	_	X	_	X	X	_	X	X	X	_
ICSA	1.0	1437	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ICSAB	1.0	1443	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CCV	1.0	1448	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CCB	1.0	1454	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Instrument ID: P3 Analysis Method: P

Start date: 04/28/2006 End date: 04/28/2006

EPA Sample No.	D/F	Time	Analytes																							
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.0	1048	X		X	X			X	X	X	X	X	X	X	X		X						X	X	
S	1.0	1054	X		X	X			X	X	X	X	X	X	X	X		X						X	X	
ICV	1.0	1100			X	X				X		X		X		X		X						X	X	
ICB	1.0	1105			X	X				X		X		X		X		X						X	X	
CRI	1.0	1111			X					X		X		X		X		X						X	X	
ICSA	1.0	1119	X		X	X			X	X	X	X	X	X	X	X		X						X	X	
ICSAB	1.0	1124	X		X	X			X	X	X	X	X	X	X	X		X						X	X	
CCV	1.0	1130			X	X				X		X		X		X		X						X	X	
CCB	1.0	1136			X	X				X		X		X		X		X						X	X	
ME0014	4.0	1141														X										
ME0016A	1.0	1147			X	X				X		X		X		X		X						X	X	
ZZZZZZ	2.0	1152																								
ZZZZZZ	1.0	1158																								
ZZZZZZ	1.0	1204																								
ZZZZZZ	1.0	1209																								
CRI	1.0	1218			X					X		X		X		X		X						X	X	
ICSA	1.0	1224	X		X	X			X	X	X	X	X	X	X	X		X						X	X	
ICSAB	1.0	1229	X		X	X			X	X	X	X	X	X	X	X		X						X	X	
CCV	1.0	1235			X	X				X		X		X		X		X						X	X	
CCB	1.0	1240			X	X				X		X		X		X		X						X	X	

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Instrument ID: C5 Analysis Method: CV

Start date: 04/26/2006 End date: 04/27/2006

EPA Sample No.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.0	1207															X									
S0.2	1.0	1209															X									
S1.0	1.0	1211															X									
S2.0	1.0	1212															X									
S5.0	1.0	1214															X									
S10.0	1.0	1216															X									
ICV	1.0	1036															X									
ICB	1.0	1038															X									
CRI	1.0	1044															X									
CCV	1.0	1046															X									
CCB	1.0	1048															X									
PBS	1.0	1049															X									
LCSS	1.0	1051															X									
ME0016	1.0	1053															X									
ME0016D	1.0	1055															X									
ME0016S	1.0	1101															X									
ME0001	1.0	1103															X									
ME0002	1.0	1105															X									
ME0003	1.0	1106															X									
ME0004	1.0	1108															X									
CCV	1.0	1110															X									
CCB	1.0	1112															X									
ME0005	1.0	1114															X									
ME0006	1.0	1115															X									
ME0007	1.0	1117															X									
ME0008	1.0	1119															X									
ME0009	1.0	1121															X									
ME0014	1.0	1123															X									
ME0015	1.0	1124															X									
ME0017	1.0	1126															X									
ME0018	1.0	1128															X									
CRI	1.0	1130															X									
CCV	1.0	1132															X									

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Instrument ID: C5 Analysis Method: CV

Start date: 04/26/2006 End date: 04/27/2006

EPA Sample No.	D/F	Time	Analytes																							
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB	1.0	1134															X									
ME0019	1.0	1135															X									
ME0027	1.0	1137															X									
CRI	1.0	1139															X									
CCV	1.0	1141															X									
CCB	1.0	1143															X									

FORM XIII-IN ILM05.3

61

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Instrument ID: C1 Analysis Method: AS

Start date: 04/25/2006 End date: 04/25/2006

EPA Sample No.	D/F	Time	Analytes																							
			ALK	SB	ASA	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.0	1007																								X
S10.0	1.0	1008																								X
S50.0	1.0	1009																								X
S100.0	1.0	1010																								X
S200.0	1.0	1011																								X
S400.0	1.0	1012																								X
ICV	1.0	1531																								X
ICB	1.0	1532																								X
CRI	1.0	1533																								X
CCV	1.0	1534																								X
CCB	1.0	1535																								X
MIDRANGE	1.0	1536																								X
PBS	1.0	1536																								X
LCSS	1.0	1537																								X
ME0016	1.0	1538																								X
ME0016D	1.0	1539																								X
ME0016S	1.0	1540																								X
ME0001	1.0	1541																								X
ME0002	1.0	1542																								X
ME0003	1.0	1542																								X
ME0004	1.0	1543																								X
CCV	1.0	1544																								X
CCB	1.0	1545																								X
ME0005	1.0	1546																								X
ME0006	1.0	1547																								X
ME0007	1.0	1548																								X
ME0008	1.0	1548																								X
ME0009	1.0	1549																								X
ME0014	1.0	1550																								X
ME0015	1.0	1551																								X
ME0017	1.0	1552																								X
ME0018	1.0	1553																								X
CRI	1.0	1554																								X

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Instrument ID: C1 Analysis Method: AS

Start date: 04/25/2006 End date: 04/25/2006

EPA Sample No.	D/F	Time	Analytes																							
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV	1.0	1554																								X
CCB	1.0	1555																								X

FORM XIII-IN ILM05.3

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0001

Instrument ID: C1 Analysis Method: AS

Start date: 04/26/2006 End date: 04/26/2006

EPA Sample No.	D/F	Time	Analytes																							
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.0	0935																								X
S10.0	1.0	0936																								X
S50.0	1.0	0937																								X
S100.0	1.0	0938																								X
S200.0	1.0	0938																								X
S400.0	1.0	0939																								X
ICV	1.0	1005																								X
ICB	1.0	1006																								X
CRI	1.0	1007																								X
CCV	1.0	1008																								X
CCB	1.0	1008																								X
MIDRANGE	1.0	1009																								X
PBS	1.0	1010																								X
LCSS	1.0	1011																								X
ME0019	1.0	1012																								X
ME0027	1.0	1013																								X
CRI	1.0	1014																								X
CCV	1.0	1014																								X
CCB	1.0	1015																								X

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: ME0001 CERCLIS No: ILD980794929

Case No: 25289 Site Name/Location: DUNAVAN Oil (IL)

Contractor or EPA Lab: SENTINEL INC. Data User: IEPA

No. of Samples: 14 Date Sampled or Date Received: 5/4/06

Have Chain-of-Custody records been received? Yes X No ____
Have traffic reports or packing lists been received? Yes X No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

____ ____ ____ ____
____ ____ ____ ____

Are basic data forms in? Yes X No ____
No of samples claimed: ____ No. of samples received: ____

Received by: Adaurs Johnson Date: 5/4/06

Received by LSSS: Adaurs Johnson Date: 5/5/06

Review started: 5-25-06 Reviewer Signature: [signature]

Total time spent on review: ____ Date review completed: 5-31-06

Copied by: Adaurs Johnson Date: 5/31/06

Mailed to user by: Adaurs Johnson Date: 5/31/06

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

____

____

Received by Data Mgmt. Coordinator for Files. Date: ____

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: June 1, 2006

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE Name: Dunavan Oil (IL)

Case Number: 35229 SDG Number: E0010

Number and Type of Samples: 10 (waters) (VOA, VOA (SIM), SV, SV(SIM)

Sample Numbers: E0010, E0011, E0013, E0020, E0022 through E0026 and E0035

Laboratory: Envirosystems, Inc. Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0010
Laboratory: Envirosystems, Inc.

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Ten (10) water samples, numbered E0010, E0011, E0013, E0020, E0022 through E0026 and E0035 were collected on April 5, 11 to 13, 2006. The lab received the samples on April 13 and 14, 2006 in good condition except E0024 had 1 broken bottle and E0025 had 1 broken vial. The following table shows which samples were analyzed for each fraction. All samples were analyzed according to CLP SOW SOM01.1 (5/2005). The samples were validated according to USEPA CLP National Functional Guidelines for Superfund Organic Methods Data Review (1/2005).

Sample	Organic Compounds			
	Volatile Trace	Volatile Trace SIM	Semivolatile	Semivolatile SIM
E0010	X	X	X	X
E0011	X	X	X	X
E0013	X	X		
E0020	X	X	X	X
E0022	X	X	X	X
E0023	X	X	X	X
E0024	X	X		
E0025	X	X	X	X
E0026		X		
E0035	X	X	X	X

Sample E0013 and E0026 are identified as Trip Blanks. CADRE identified sample E0022 as a Field Blank. Samples E0022 and E0023 are not included on the Chain of Custody form. CADRE assigned collection dates of April 12, 2006 for samples E0022 and E0023. These dates will be used for the data validation process. There are no Field Duplicates with this data package.

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0010
Laboratory: Envirosystems, Inc.

1. HOLDING TIME

The following Trace Volatile samples exceeded the holding time of 14 days from date of collect to date analyzed. Hits are qualified "J" and non-detects are qualified "UJ".

E0013, E0025

The following Trace SIM Volatile samples exceeded the holding time of 14 days and less than 28 days from date of collect to date analyzed; therefore, hits are qualified "J" and non-detects qualified "UJ".

E0010, E0011, E0013, E0020, E0022, E0023, E0024, E0025, E0026

The following Semivolatile samples were extracted greater than 7 days and less than 14 days from collection. Hit are qualified "J" and non-detects are qualified "UJ".

E0010, E0011, E0020, E0020MS, E0020MSD, E0022, E0023

The following Semivolatile samples were extracted greater than 14 days from collection. Hit are qualified "J" and non-detects are qualified "R".

E0025

The following Semivolatile SIM samples were extracted greater than 7 days and less than 14 days from collection. Hit are qualified "J" and non-detects are qualified "UJ".

E0010, E0011, E0020, E0020MS, E0020MSD, E0022, E0023, E0035

The following Semivolatile SIM samples were extracted greater than 14 days from collection. Hit are qualified "J" and non-detects are qualified "R".

E0025

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No defects were found.

3. CALIBRATION

The following Trace Volatile samples are associated with an initial calibration with a relative response factor (RRFs) below the primary criteria (RRF 0.005). Hits are qualified

"J".

1,4-Dioxane
E0024

The following Trace Volatile samples are associated with an initial calibration with a relative response factor (RRFs) below the primary criteria (RRF 0.005). Non-detects are qualified "R".

1,4-Dioxane
E0010, E0011, E0013, E0020, E0022, E0023, E0025, E0035, VBLKHT, VHBLKHT

The following Trace Volatile samples are associated with the opening continuing calibration whose corresponding initial calibration has relative response factors (RRFs) below the primary criteria (RRF 0.005). Hits are flagged "J".

1,4-Dioxane
E0024

The following Trace Volatile samples are associated with the opening continuing calibration whose corresponding initial calibration has relative response factors (RRFs) below the primary criteria (RRF 0.005). There are no detects. Non-detects are qualified "R".

1,4-Dioxane
E0010, E0011, E0013, E0020, E0022, E0023, E0025, E0035, VBLKHT, VHBLKHT

The following Trace Volatile samples are associated with the opening continuing calibration percent difference (%D) outside primary criteria. There are no detects in the following samples. Non-detects are qualified "UJ".

Acetone
E0010, E0011, E0013, E0020, E0022, E0023, E0024, E0025, E0035, VBLKHT, VHBLKHT

The following Trace Volatile samples are associated with an initial calibration in which a SMC/DMC did not meet relative response factor (RRF) criteria. No action is taken on the DMC %RSD and RRF data alone.

1,4-Dioxane-d8
E0010, E0011, E0013, E0020, E0022, E0023, E0024, E0025, E0035, VBLKHT, VHBLKHT

Case Number: 35229 SDG Number: E0010
Site Name: Dunavan Oil (IL) Laboratory: Envirosystems, Inc.

The following Trace Volatile samples are associated with a continuing calibration in which a SMC/DMC exceeded percent difference (%D) criteria. No action is taken on the DMC %RSD and RRF data alone.

Trans-1,3-Dichloropropene-d4, 1,4-Dioxane-d8
E0010, E0011, E0013, E0020, E0022, E0023, E0024, E0025, E0035, VBLKHT, VHBLKHT

The following Trace SIM Volatile samples are associated with the opening continuing calibration whose corresponding initial calibration has relative response factors (RRFs) below the primary criteria (RRF 0.005). There are no detects. Non-detects are qualified "R".

1,4-Dioxane
E0010, E0011, E0013, E0020, E0022, E0023, E0024, E0025, E0026, E0035, VBLKHV, VHBLKHV

The following Trace SIM Volatile samples are associated with an initial calibration in which a SMC/DMC did not meet relative response factor (RRF) criteria. No action is taken on the DMC %RSD and RRF data alone.

1,4-Dioxane-d8
E0010, E0011, E0013, E0020, E0022, E0023, E0024, E0025, E0026, E0035, VBLKHV, VHBLKHV

The following Trace SIM Volatile samples are associated with a continuing calibration in which a SMC/DMC exceeded percent difference (%D) criteria. No action is taken on the DMC %RSD and RRF data alone.

1,4-Dioxane-d8
E0010, E0011, E0013, E0020, E0022, E0023, E0024, E0025, E0026, E0035, VBLKHV, VHBLKHV

The following Semivolatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria (25%). Detects for these compounds were not reported in the samples and non-detected results should be qualified "UJ".

Indeno (1,2,3-cd) pyrene (25.7%), **Dibenzo (a,h) anthracene** (27.4%)
E0010, E0011, E0020, E0020MS, E0020MSD, E0022, E0023, E0035, SBLK13

Detects for these compounds were not reported in sample E0025 and non-detects should

be qualified "R" because of holding time.

The following Semivolatile samples are associated with a opening continuing calibration percent difference (%D) outside primary criteria (25%). Detects for these compounds were not reported in the samples and non-detected results should be qualified "UJ".

Indeno (1,2,3-cd) pyrene (35.6%), **Dibenzo (a,h) anthracene** (37.7%), **Benzo (g,h,i) perylene** (37.1%)

E0010, E0011, E0020, E0020MS, E0020MSD, E0022, E0023, E0035, SBLK13

Detects for these compounds were not reported in sample E0025 and non-detects should be qualified "R" because of holding time.

The following Semivolatile samples are associated with a closing continuing calibration percent difference (%D) outside primary criteria (50%). There are no detects. Non-detects are qualified "UJ".

2,4-Dinitrophenol (-51.0%)
E0010, E0011, E0020, E0020MS, E0020MSD, E0022, E0023, E0035, SBLK13

Detects for these compounds were not reported in sample E0025 and non-detects should be qualified "R" because of holding time.

The following Semivolatile SIM samples are associated with an initial calibration with a relative response factor (RRFs) outside the primary criteria (RRF 0.05). There are no detects. Non-detects are qualified "R".

Pentachlorophenol (RRF 0.039)
E0010, E0011, E0020, E0020MS, E0020MSD, E0022, E0023, E0025, E0035, SBLK17

The following Semivolatile SIM samples are associated with a continuing calibration with a relative response factor (RRFs) outside the primary criteria. There are no detects. Non-detects are qualified "R".

Pentachlorophenol
E0010, E0011, E0020, E0020MS, E0020MSD, E0025, E0035

4. BLANKS

Sample VBLKHT is a Trace Volatile Method Blank. Samples with TIC concentrations less than five times (5X) the Method Blank TIC concentrations are qualified (U) as a blank contamination.

E0010, E0011, E0013, E0022, E0023, E0025, E0035

The following volatile samples are associated with a contaminated storage blank. Hits are qualified "J".
Methylene Chloride
E0022

Cis-1,3-Dichloropropene
E0022

The Trace Volatile Field Blank E0022 contains Methylene Chloride at 0.68 µg/L, cis-1,3-Dichloropropene at 0.21 µg/L, Toluene at 0.90 µg/L and m,p-Xylene at 0.27 µg/L. The following Volatile samples have analyte concentrations reported above the CRQL and less than or equal to two times (2X) the CRQL. Hits are qualified "U" and non-detects are not flagged.

Methylene Chloride
E0011, E0020, E0023, E0024

Methylene Chloride in samples E0013 and E0025 are qualified "UJ" because of the holding time.

The following Trace Volatile samples have analyte concentrations reported below the CRQL and less than or equal to the Field Blank. Hits are elevated to the CRQL and qualified "U" and non-detects are not flagged.

Methylene Chloride
E0010, E0035

Cis-1,3-Dichloropropene
E0013, E0020, E0024

Cis-1,3-Dichloropropene in sample E0013 is qualified "UJ" because of holding time.

The Trace Volatile Trip Blank E0013 contains 1,2-Dibromoethane at 0.098 µg/L. The samples associated with E0013 were E0010, E0011 and E0020. The following Trace Volatile SIM samples have analyte concentrations reported above the CRQL and less than or equal to five times (5X) the Trip Blank E0013 concentration. Hits are qualified "U"

and non-detects are not flagged.

1,2-Dibromoethane
E0010

The following Trace Volatile SIM samples have analyte concentrations reported above the CRQL and less than or equal to five times (5X) the Method Blank concentration. Non-detects are qualified "R" because of low RRF in calibration.

1,4-Dioxane
E0010, E0011, E0013, E0020, E0022, E0023, E0024, E0025, E0026, E0035, VHBLKHV
The Trace Volatile SIM Trip Blank E0026 contains 1,2-Dibromoethane at 0.12 µg/L and 1,2-Dibromo-3-chloropropane at 0.089 µg/L. The samples associated with E0026 were E0022, E0023, E0024, E0025 and E0035.

The following Trace Volatile SIM samples have analyte concentrations reported above the CRQL and less than or equal to five times (5X) the Trip Blank E0026 concentration. Hits are qualified "U" and non-detects are not flagged.

1,2-Dibromo-3-chloropropane
E0035

The following Trace Volatile SIM samples have analyte concentrations reported below the CRQL and less than or equal to the Trip Blank E0026 concentration. Hits are elevated to the CRQL and qualified "UJ" because of holding time.

1,2-Dibromo-3-chloropropane
E0023, E0024, E0025

5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY

The following Trace Volatile samples have recoveries above the QC limit. No target analytes were detected; therefore, no action was taken.

E0010, E0025

The following Trace Volatile SIM sample has a Deuterated Monitoring Compound recovery above the QC limit. Detect was not found in the sample. Non-detect was qualified "R" because of low RRF in calibration.

1,4-Dioxane
VBLKHV

The following Trace Volatile SIM sample has recovery above the QC limit. The target

analyte was not detected; therefore, no action was taken.

E0022

The following Trace Volatile SIM samples have recoveries below the QC limit and greater than 20%. There are no detects reported. Non-detects are qualified "UJ".

E0020, E0025, VHBLKHV
1,2-Dibromo-3-chloropropane

The following Trace Volatile SIM sample has a recovery below the QC limit and less than 20%. There are no detects reported. Non-detects are qualified "R" because of low RRF in calibration.
E0024
1,4-Dioxane

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The following Semivolatile SIM samples have recoveries above the QC criteria (E0020MS=240; E0020MSD=210). The presence of Pentachlorophenol in the unspiked sample E0020 is not detected; therefore, E0020 is qualified "R" because of low RRF in calibration.

E0020MS, E0020MSD
Pentachlorophenol

7. FIELD BLANK AND FIELD DUPLICATE

Sample E0013 and E0026 are identified as Trip Blanks. CADRE identified sample E0022 as a Field Blank. The following table shows the results.

TRIP BLANKS		
Sample	Trace Volatile	Volatile SIM
E0013	2-Hexanone at 3.3 µg/L **(J)**	1,2-Dibromoethane at 0.098 µg/L
E0026		1,2-Dibromoethane at 0.12 µg/L
		1,2-Dibromo-3-chloropropane at 0.089 µg/L

FIELD BLANK E0022
Trace Volatile
Methylene Chloride at 0.68 µg/L
Cis-1,3-Dichloropropene at 0.21 µg/L **(J)**
Toluene at 0.90 µg/L
M,p-Xylene at 0.27 µg/L **(J)**

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0010
Laboratory: Envirosystems, Inc.

Results are not qualified based upon the results of the field duplicates.

8. INTERNAL STANDARDS

No defects were found.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, VOA SIM, SVOA, SVOA SIM compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E0013
2-Hexanone

E0022
Cis-1,3-Dichloropropene, m,p-Xylene

E0024
1,4-Dioxane, 2-Hexanone

E0035
Chloromethane

The following Semivolatile SIM samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E0020
Naphthalene, 2-Methylnaphthalene

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

12. ADDITIONAL INFORMATION

There is no Chain of Custody record for samples E0022 and E0023. CADRE identified sample E0022 as a Field sample.

Reviewed by: Richard Baltrus TechLaw, Inc. / ESAT
Date: June 28, 2006

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0010
Laboratory: Envirosystems, Inc.

The laboratory narrative document states that sample E0026 was accidentally overlooked and was not analyzed for the Trace Volatile fraction as requested.

The following Volatile samples CADRE did not enter the results on the Lotus and EDD spreadsheets. The end user should refer to the Form 1s for these results.

VHBLKHT, VBLKHT

The following Volatile SIM samples CADRE did not enter the results on the Lotus and EDD spreadsheets. The end user should refer to the Form 1s for these results.

VHBLKHV, VBLKHV

The following Semivolatile samples CADRE did not enter the results on the Lotus and EDD spreadsheets. The end user should refer to the Form 1s for these results.
E0020MS, E0020MSD, SBLK13

The following Semivolatile SIM samples CADRE did not enter the results on the Lotus and EDD spreadsheets. The end user should refer to the Form 1s for these results.

E0020MS, E0020MSD, SBLK17

The Volatile SIM analysis Method Blank has a DMC out of specification. Three out of 12 samples were out; therefore, this reviewer believes that the blank problem is an isolated occurrence.

CADRE did not list all the TICs for the Trace Volatile fraction. Enclosed is a hard copy of the Trace Volatile fraction that the end user should refer to.

Reviewed by: Richard Baltrus TechLaw, Inc. / ESAT
Date: June 28, 2006

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present.)

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0010
Laboratory: Envirosystems, Inc.

Reviewed by: Richard Baltrus TechLaw, Inc. / ESAT
Date: June 28, 2006

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc) **SDG** E0010 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31464

VOA_Trace Sample=E0010 Location=G101 Matrix=Water Level=Trace

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
000541-05-9	Cyclotrisiloxane, hexamethyl-	7 81	0 67	ug/L	JN
000556-67-2	Cyclotetrasiloxane, octamethyl-	9 99	4 4		JN

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc) **SDG** E0010 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31464

VOA_Trace Sample=E0011 Location=G102 Matrix=Water Level=Trace

CAS No	Compound Name	RT (mins)	Concentration		Lab Qualifier
000556-67-2	Cyclotetrasiloxane, octamethyl-	9 98	0 94	ug/L	JN

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc) **SDG** E0010 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31464

VOA_Trace Sample=E0020 **Location=G103** Matrix=Water Level=Trace

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
000556 67-2	Cyclotetrasiloxane, octamethyl-	9 99	1 2	ug/L	JN

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc) **SDG** E0010 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31464

VOA_Trace Sample=E0023 Location=G104 Matrix=Water Level=Trace

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
Unknown 01	Unknown-01	5 83	1 9	ug L	J

National Functional Guidelines Report # 9

Lab ENVSYS (*Envirosystems, Inc*) **SDG** *E0010* **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31464

VOA_Trace Sample=E0025 **Location**=G105 Matrix=Water Level=Trace

CAS No.	Compound Name	RT (mins)	Concentration	Lab Qualifier

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc) **SDG** E0010 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31464

VOA_Trace Sample=E0035 **Location**=G106 Matrix=Water Level=Trace

CAS No.	Compound Name	RT (mins)	Concentration	Lab Qualifier
Unknown-02	Unknown-02	3 8 1 2	ug/L	J

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc) **SDG** E0010 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31464

BNA Sample=E0023 Location=G104 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
104-76-7	1-Hexanol, 2-ethyl-	8.35	4 6	ug/L	JN
10544-50-0	Cyclic octaatomic sulfur	21 15	16		JN

DATE: June 2, 2006

IEPA
Attn: Mr. Bob Casper
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

SITE NAME: Dunavan Oil (IL)

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
35229	Sentinel	8	ME0010	water

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: **U.S. EPA - Region 5**
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat Johnson
Data Coordinator
ESAT Region 5 **TechLaw**

JUN 07 2006

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 5/30/06

SUBJECT: Review of Data
Received for review on 5/4/06

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data by CADRE for the following case:

SITE NAME: Dunavan Oil (IL)

CASE NUMBER: 35229 SDG NUMBER: ME0010

Number and Type of Samples: 8 waters

Sample Numbers: ME0010, 11, 20, 22-25, 35

Laboratory: Sentinel Hrs. for Review: 10
+1.5

Following are our findings:

CC: Howard Pham
Region 5 TOPO
Mail Code: SRT-4J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Eight (8) water samples, numbered ME0010, 11, 20, 22-25, 35, were collected between April 5 and 13, 2006. The lab received the samples on April 13 and 14, 2006 in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ILM05.3 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)

Errors were found and corrected on Form Is by this reviewer.

1. HOLDING TIME:

DC-5: The following inorganic cyanide samples did not meet primary holding time criteria. Hits are qualified "J" and non-detects are qualified "R".

Cyanide
ME0025

2. CALIBRATIONS:

No defects were found for the calibration or the CRQL standard.

3. BLANKS:

The following inorganic samples are associated with an ICB/CCB concentration which is greater than the instrument detection limit (IDL) but less than or equal to the CRQL. The sample result is greater than the MDL but less than or equal to the CRQL.
Hits are qualified "U". The sample result is raised to the CRQL.

Copper
ME0010, ME0020, ME0023, ME0024

Lead
ME0010, ME0011, ME0020, ME0023, ME0024, ME0025, ME0035

Cyanide
ME0010, ME0011, ME0020, ME0022, ME0023, ME0024, ME0025, ME0035

The following inorganic samples are associated with a field blank concentration which is greater than the CRQL. ME0022 is a field blank. The sample concentration is greater than the MDL but less than five times the blank concentration.
These hits are qualified "J+".

Zinc
ME0020, ME0023, ME0024, ME0025

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

No defects were found for matrix spike or laboratory control samples.

5. LABORATORY AND FIELD DUPLICATE:

No defects were found for the laboratory duplicate sample.

6. ICP ANALYSIS:

The following inorganic sample results are affected by an interference check "A" sample

(ICSA) for which false positive concentration values greater than the MDL were obtained.
Hits less than 10 times the value of the ICSA are qualified "J+"; non-detects are not qualified. Hits greater than 10 times the ICSA are not qualified

Arsenic
ME0010, ME0011, ME0020, ME0025, ME0035

Vanadium
ME0023, ME0025

Zinc
ME0010, ME0011, ME0020, ME0022, ME0023, ME0024, ME0025, ME0035

The following results are affected by an interference check "A" sample (ICSA) for which false negative concentration values greater than the absolute value of the MDL were obtained.
Hits less than 10 times the absolute value of the ICSA are qualified "J-", non-detects are qualified "UJ". Hits greater than 10 times the ICSA are not qualified.

Cadmium
ME0010, ME0011, ME0020, ME0022, ME0023, ME0024, ME0025, ME0035

No defects were found for the serial dilution sample.

7. GFAA ANALYSIS:

No GFAA analyses were performed for this case.

8. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).
Results are qualified "J".

Arsenic
ME0010, ME0025, ME0035

Barium
ME0010, ME0022, ME0023, ME0024, ME0025

Chromium
ME0010, ME0011, ME0020, ME0023, ME0024, ME0025, ME0035

Cobalt
ME0010, ME0011, ME0020, ME0023, ME0025, ME0035

Manganese
ME0022, ME0024, ME0025

Nickel
ME0010, ME0020, ME0023, ME0024

Selenium
ME0025

Vanadium
ME0023, ME0025

All data, except those qualified above, are acceptable.

CADRE ILM05.3 Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Analytical Results (Qualified Data)

Case # 35229 SDG ME0010
Site DUNAVAN OIL
Lab. : SENTINEL
Reviewer : S. CONNET
Date : 05/30/06

Number of Soil Samples : 0
Number of Water Samples : 8

Sample Number :	ME0010		ME0011		ME0020		ME0022		ME0023	
Sampling Location :	G101		G102		G103		FIELD BLANK		G104	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled	4/11/2006		4/11/2006		4/12/2006		4/12/2006		4/12/2006	
Time Sampled :	16:45		17:25		12:40		14:30		14:20	
%Solids :	0.0		0.0		0.0		0.0		0.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM										
ANTIMONY	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
ARSENIC	0.34	J+	1.0	J+	1.8	J+	1.0	U	1.0	U
BARIUM	0.64	J	10.3		11.9		0.56	J	0.88	J
BERYLLIUM	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
CADMIUM	1.0	UJ	1.0	UJ	1.0	UJ	1.0	UJ	1.0	UJ
CALCIUM										
CHROMIUM	0.080	J	0.072	J	0.10	J	2.0	U	0.14	J
COBALT	0.033	J	0.38	J	0.18	J	1.0	U	0.031	J
COPPER	2.0	U	6.0		2.0	U	2.0	U	2.0	U
IRON										
LEAD	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
MANGANESE	1.7		121		84.9		0.10	J	3.0	
MERCURY	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
NICKEL	0.097	J	2.0		0.93	J	1.0	U	0.14	J
POTASSIUM										
SELENIUM	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
SILVER	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SODIUM										
THALLIUM	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
VANADIUM	1.0	U	1.0	U	1.0	U	1.0	U	0.26	J+
ZINC	20.0	J+	19.4	J+	5.7	J+	2.7	J+	4.5	J+
CYANIDE	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U

Analytical Results (Qualified Data)

Case # 35229 SDG ME0010
Site : DUNAVAN OIL
Lab : SENTINEL
Reviewer : S CONNET
Date : 05/30/06

Sample Number :	ME0024		ME0025		ME0035					
Sampling Location :	G106		G105		G106					
Matrix :	Water		Water		Water					
Units :	ug/L		ug/L		ug/L					
Date Sampled :	4/12/2006		4/5/2006		4/13/2006					
Time Sampled :	14:23		14:50		10:00					
%Solids :	0.0		0.0		0.0					
Dilution Factor :	1.0		1.0		1.0					
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM										
ANTIMONY	2.0	U	2.0	U	2.0	U				
ARSENIC	1.0	U	0.37	J+	0.71	J+				
BARIUM	0.25	J	0.35	J	39.1					
BERYLLIUM	1.0	U	1.0	U	1.0	U				
CADMIUM	1.0	UJ	1.0	UJ	1.0	UJ				
CALCIUM										
CHROMIUM	0.10	J	0.097	J	0.75	J				
COBALT	1.0	U	0.036	J	0.23	J				
COPPER	2.0	U	48.4		11.1					
IRON										
LEAD	1.0	U	1.0	U	1.0	U				
MANGANESE	0.51	J	0.20	J	6.2					
MERCURY	0.20	U	0.20	U	0.20	U				
NICKEL	0.078	J	1.0	U	2.3					
POTASSIUM										
SELENIUM	5.0	U	1.8	J	5.0	U				
SILVER	1.0	U	1.0	U	1.0	U				
SODIUM										
THALLIUM	1.0	U	1.0	U	1.0	U				
VANADIUM	1.0	U	0.58	J+	1.3					
ZINC	4.0	J+	8.9	J+	16.4	J+				
CYANIDE	10.0	U	10.0	R	10.0	U				

QC EXCEPTION SUMMARY REPORT

CASE\SAS#: 35229
SITE: DUNAVAN OIL
MATRIX: WATER
WATER SAMPLE SPK: MEC025
DATA SET: MEC010
LAB: SENTINEL
CONC: LOW
WATER SAMPLE DUP: --
LAB QC #
REVIEWED BY: G. CONNET
SOIL SAMPLE SPK: —
DATE: 5-30-06
SOIL SAMPLE DUP: —

FORM #		FORM 2	FORM 2	FORM 3	FORM 3	FORM 3	FORM 4	FORM 5	FORM 6	FORM 7	FORM 7	FORM 9	FORM 9	FORM 4	FORM 5	FIELD	FIELD	FIELD	FIELD	COMMENTS
ELEMENT	HOLD TIME	INITIAL CALIB	CONTIN CALIB	CALIB BLANK	PREP WATER BLANK	PREP SOIL BLANK	ICS A %R	SOIL SPIKE %R	SOIL DUP RPD	ICS AQ	ICS SOIL	SERIAL DILUTION AQUEOUS	SERIAL DILUTION SOIL	AQ DUP %R	AQ SPIKE %R	BLANK 22	DUP RPD	BLANK	DUP RPD	
ALUMINUM																				
ANTIMONY																				
ARSENIC							+1.976													
BARIUM																				
BERYLLIUM																				
CADMIUM							-6.59													
CALCIUM																				
CHROMIUM																				
COBALT																				
COPPER			0.076																	
IRON																				
LEAD			0.022																	
MAGNESIUM																				
MANGANESE																				
MERCURY																				
NICKEL																				
POTASSIUM																				
SELENIUM																				
SILVER																				
SODIUM																				
THALLIUM																				
TIN																				
VANADIUM							+0.546													
ZINC							+2.4									2.7				
CYANIDE	*		2.2													~~2.7~~				

* MEC025 SAMPLED 4/5/06

5-30-06

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 35229
DAS No:
SDG No: ME0010

L

Date Shipped:	4/12/2006
Carrier Name:	UPS
Airbill:	1Z6215892210024133
Shipped to:	Sentinel Inc. 116 Washington Street, NE Huntsville AL 35801 (256) 534-9800

Chain of Custody Record

Sampler Signature: [signature]

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	4/12/06 1735		
2			
3		L Chorewa	04/13/06 0945
4			

For Lab Use Only

Lab Contract No:	68W02060
Unit Price:	150.00
Transfer To:	
Lab Contract No:	
Unit Price:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME0010	Potable Well/ Lance Range	L/G	CN (21), TM/Hg (21)	304195 (HNO3), 304196 (NaOH) (2)	G101	S: 4/11/2006	16:45	E0010	
ME0011	Potable Well/ Lance Range	L/G	CN (21), TM/Hg (21)	263360 (HNO3), 263361 (NaOH) (2)	G102	S: 4/11/2006	17:25	E0011	
ME0020	Potable Well/ Lance Range	L/G	CN (21), TM/Hg (21)	263281 (HNO3), 263282 (HNO3), 263283 (HNO3), 263284 (NaOH), 263285 (NaOH), 263286 (NaOH) (6)	G103	S: 4/12/2006	12:40	E0020	

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	ME0020		2.0°C	82816

Analysis Key: Concentration: L = Low, M = Low/Medium, H = High Type/Designate: Composite = C, Grab = G

Custody Seal Intact? Y Shipment Iced? Y

CN = Cyanide, TM/Hg = CLP TAL Total Metals/Hg

TR Number: 5-314975591-041206-0005

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to Sample Management Office, Attn. Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200, Fax 703/818-4602

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Red

Case No:	35229
DAS No:	
SDG No:	ME0010

L

Date Shipped:	4/13/2006
Carrier Name:	UPS
Airbill:	1Z6215892210024197
Shipped to:	Sentinel Inc 116 Washington Street, NE Huntsville AL 35801 (256) 534-9800

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	4/13 Lot 1200	MW	04/14/06
2		Matt Wolt	0934
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	68 W02060
Unit Price:	150.00
Transfer To:	
Lab Contract No:	
Unit Price:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME0015	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263366 (1)	X111	S: 4/5/2006	9:50	E0015	
ME0016	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263370 (1)	X112	S: 4/12/2006	9:50	E0016	
ME0017	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263374 (1)	X113	S: 4/12/2006	10:40	E0017	
ME0018	Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263378 (1)	S101	S: 4/12/2006	12:30	E0018	
ME0019	Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263382 (1)	S102	S: 4/12/2006	12:20	E0019	
ME0022	Potable Well/ Lance Range	L/G	CN (21), TM/Hg (21)	263297 (HNO3), 263298 (NaOH) (2)	Field Blank	S: 4/12/2006	14:30	E0022	
ME0023	Potable Well/ Lance Range	L/G	CN (21)	263976 (NaOH) (1)	G104	S: 4/12/2006	14:20	E0023	
ME0024	Potable Well/ Lance Range	L/G	CN (21)	263986 (NaOH) (1)	G189	S: 4/12/2006	14:20	E0024	
ME0025	Potable Well/ Lance Range	L/G	CN (21), TM/Hg (21)	263995 (HNO3), 263996 (NaOH) (2)	G105	S: 4/5/2006	14:50	E0025	
ME0027	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263451 (1)	X114	S: 4/12/2006	13:55	E0027	

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	ME0016, ME0024, ME0038		3.0, 1.0°C	82821-82822

Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

CN = Cyanide, TM/Hg = CLP TAL Total Metals/Hg

TR Number: 5-314975591-041306-0003

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA - CLP

MAY 0 4 2006

COVER PAGE

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0010

SOW No.: ILM05.3

EPA SAMPLE NO.	Lab Sample ID.
ME0010	19533
ME0011	19534
ME0020	19535
ME0020D	19535S2
ME0020S	19535MS
ME0022	1969_
ME0023	19692
ME0024	19693
ME0025	19694
ME0035	19695

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	_____	YES
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	_____	YES
If yes-were raw data generated before application of background corrections?	(Yes/No)	_____	NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name: Barrigue

Date: 5/3/06 Title: QA Mgr

U.S. EPA - CLP

SDG NARRATIVE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Sentinel, Inc. SOW No.: ILM05.3 Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: MET010

SAMPLE RECEIPT: Temperature Blank: PRESENT ✓ ABSENT ____
If a blank is absent, a non-invasive laser measurement is taken using a sample.
Cooler temperature(s) recorded via laser measurement were: 3.0,1.0,2.0°C
Refer to Record of Communication (ROC) regarding EPA Sample # discrepancies for samples:

Refer to ROC regarding tag discrepancies for samples:
all samples

Refer to ROC regarding sample preservation discrepancies for samples:

Refer to ROC regarding:
analysis discrepancies on COC/TR

QC Specified: Yes ✓ No ____ If no, chose: ____

ANALYSIS: The following analyte(s) were estimated due to possible matrix interferences:

DOCUMENT CONTROL: The following invalid defects resulted due to CCS program anomalies:
Initial Assessment:
Full Assessment:

OTHER: 1. ICP-MS Mean Values in the raw data are incorrect due to TJA software anomalies.
2. Internal Standard calculations in the raw data are reported as the reciprocal values of the %RI (decimal form-not a percentage) with the control limits as stated in the SOW Exhibit D (ICP-MS) Section 12.11.1.

Signature:

Name & Title: Rodriguez CMOR Date: 5/3/04

2

SDG NARRATIVE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Sentinel, Inc. SOW No.: ILM05.3 Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0010

EQUATIONS:

HW2 Method: Concentration (µg/L) = C x (V_f/V_i) x (V_f/20) x DF

WHERE, C = Instrument value in µg/L (The average of all replicate integrations).
V_f = Final digestion volume (50 mL)
V_i = Initial digestion volume (100 mL)
DF = Dilution Factor

HW3 Method: Concentration (µg/L) = C x (V_f/V_i) x DF

WHERE, C = Instrument value in µg/L (The average of all replicate integrations).
V_f = Final digestion volume (mL)
V_i = Initial digestion volume (mL)
DF = Dilution Factor

CW1 Method: Concentration (µg/L) = C x (V_f/V_i) x DF

WHERE, C = Instrument value in µg/L (The average of all replicate integrations).
V_f = Final digestion volume (mL)
V_i = Initial digestion volume (mL)
DF = Dilution Factor

DW2 Method: CN Concentration (µg/L) = (A x D x F)/ B

WHERE, A = µg/L CN of sample from regression analysis
B = volume of original sample for distillation (0.050 L)
D = any dilution factor necessary to bracket sample values within standard values
F = sample receiving solution volume (0.050 L)

Signature: [signature]

Name & Title: B Rodriguez CMR

Date: 5/31/06

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0010

Lab Name: Sentinel, Inc. Contract: EP-W-02-060

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0010

Matrix: (soil/water) WATER Lab Sample ID: 19533

Level: (low/med) LOW Date Received: 04/13/2006

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	0.34	J		MS
7440-39-3	Barium	0.64	J		MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.080	J		MS
7440-48-4	Cobalt	~~2.0U 0.033~~	~~J~~	W5-26-06 0.033 J	MS
7440-50-8	Copper	2.0U ~~1.6~~	~~J~~	W5-30-06	MS
7439-89-6	Iron				NR
7439-92-1	Lead	1.0U ~~0.20~~	~~J~~	W5-26-06	MS
7439-95-4	Magnesium				NR
7439-96-5	Manganese	1.7			MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	0.097	J		MS
7440-09-7	Potassium				NR
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	1.0	U		MS
7440-66-6	Zinc	20.0			MS
57-12-5	Cyanide	10.0U ~~2.1~~	~~J~~	W5-26-06	AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

11

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0011

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0010

Matrix: (soil/water) WATER Lab Sample ID: 19534

Level: (low/med) LOW Date Received: 04/13/2006

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	1.0			MS
7440-39-3	Barium	10.3			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium				NR
7440-47-3	Chromium	~~7.0U 0.072~~ 0.072 J	~~J~~	05-26-06	MS
7440-48-4	Cobalt	0.38	J		MS
7440-50-8	Copper	6.0			MS
7439-89-6	Iron				NR
7439-92-1	Lead	~~0.43~~ 1.0U	~~J~~	05-26-06	MS
7439-95-4	Magnesium				NR
7439-96-5	Manganese	121			MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	2.0			MS
7440-09-7	Potassium				NR
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	1.0	U		MS
7440-66-6	Zinc	19.4			MS
57-12-5	Cyanide	~~2.0~~ 10.0U	~~J~~	05-26-06	AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0020

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0010

Matrix: (soil/water) WATER Lab Sample ID: 19535

Level: (low/med) LOW Date Received: 04/13/2006

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	1.8			MS
7440-39-3	Barium	11.9			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.10	J		MS
7440-48-4	Cobalt	0.18	J		MS
7440-50-8	Copper	2.0U ~~0.80~~	~~J~~	~~5-26-06~~	MS
7439-89-6	Iron				NR
7439-92-1	Lead	1.0U ~~0.27~~	~~J~~	~~5-26-06~~	MS
7439-95-4	Magnesium				NR
7439-96-5	Manganese	84.9			MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	0.93	J		MS
7440-09-7	Potassium				NR
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	1.0	U		MS
7440-66-6	Zinc	5.7			MS
57-12-5	Cyanide	10.0U ~~2.1~~	~~J~~	~~5-26-06~~	AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM IA-IN

13

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0022

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0010

Matrix: (soil/water) WATER Lab Sample ID: 19691

Level: (low/med) LOW Date Received: 04/14/2006

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	0.56	J		MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium				NR
7440-47-3	Chromium	2.0	U		MS
7440-48-4	Cobalt	1.0	U		MS
7440-50-8	Copper	2.0	U		MS
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		MS
7439-95-4	Magnesium				NR
7439-96-5	Manganese	~~Lev 0.10~~ 0.10 J	~~J~~	6-5-26-06	MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	1.0	U		MS
7440-09-7	Potassium				NR
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	1.0	U		MS
7440-66-6	Zinc	2.7			MS
57-12-5	Cyanide	~~1.7~~ 1.6	~~J~~	6-5-26-06	AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0023

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0010

Matrix: (soil/water) WATER Lab Sample ID: 19692

Level: (low/med) LOW Date Received: 04/14/2006

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	0.89	J		MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.14	J		MS
7440-48-4	Cobalt	0.034	J		MS
7440-50-8	Copper	2.0U ~~2.0~~	~~J~~	u 5-26-06	MS
7439-89-6	Iron				NR
7439-92-1	Lead	1.0U ~~0.71~~	~~J~~	u 5-26-06	MS
7439-95-4	Magnesium				NR
7439-96-5	Manganese	3.0			MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	0.14	J		MS
7440-09-7	Potassium				NR
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	0.26	J		MS
7440-66-6	Zinc	4.5			MS
57-12-5	Cyanide	10.0U ~~2.3~~	~~J~~	u 5-26-06	AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM IA-IN ILM05.3

15

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME001

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENIIN Case No.: 35229 NRAS No.: SDG No.: ME0010

Matrix: (soil/water) WATER Lab Sample ID: 19693

Level: (low/med) LOW Date Received: 04/14/2006

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	~~10.00~~ ~~0.25~~ 0.25	~~U~~ J	L-5-26-06	MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.10	J		MS
7440-48-4	Cobalt	1.0	U		MS
7440-50-8	Copper	2.00 ~~1.1~~	~~J~~	L-5-26-06	MS
7439-89-6	Iron				NR
7439-92-1	Lead	1.00 ~~0.29~~	~~J~~	L-5-26-06	MS
7439-95-4	Magnesium				NR
7439-96-5	Manganese	0.51	J		MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	0.078	J		MS
7440-09-7	Potassium				NR
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	1.0	U		MS
7440-66-6	Zinc	4.0			MS
57-12-5	Cyanide	10.00 ~~2.6~~	~~J~~	L-5-26-06	AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0019

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0010

Matrix: (soil/water) WATER Lab Sample ID: 19694

Level: (low/med) LOW Date Received: 04/14/2006

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	0.37	J		MS
7440-39-3	Barium	0.35	J		MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.097	J		MS
7440-48-4	Cobalt	0.036	J		MS
7440-50-8	Copper	48.4			MS
7439-89-6	Iron				NR
7439-92-1	Lead	1.00 ~~0.64~~	~~J~~	w 5-26-06	MS
7439-95-4	Magnesium				NR
7439-96-5	Manganese	0.20	J		MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	1.0	U		MS
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.8	J		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	0.58	J		MS
7440-66-6	Zinc	8.9			MS
57-12-5	Cyanide	10.00 ~~2.7~~	~~J~~	w 5-26-06	AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM IA-IN ILM03.3

17

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0035

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0010

Matrix: (soil/water) WATER Lab Sample ID: 19695

Level: (low/med) LOW Date Received: 04/14/2006

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	0.71	J		MS
7440-39-3	Barium	39.1			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.75	J		MS
7440-48-4	Cobalt	0.23	J		MS
7440-50-8	Copper	11.1			MS
7439-89-6	Iron				NR
7439-92-1	Lead	1.0U ~~0.68~~	~~J~~	w 5-26-06	MS
7439-95-4	Magnesium				NR
7439-96-5	Manganese	6.2			MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	2.3			MS
7440-09-7	Potassium				NR
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	1.3			MS
7440-66-6	Zinc	16.4			MS
57-12-5	Cyanide	10.0U ~~3.9~~	~~J~~	w 5-26-06	AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

3-IN
BLANKS

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0010

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony	0.473	J	0.240	J	0.233	J	0.229	J	2.000	U	MS
Arsenic	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS
Barium	10.000	U	10.000	U	10.000	U	10.000	U	10.000	U	MS
Beryllium	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS
Cadmium	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS
Calcium											NR
Chromium	2.000	U	2.000	U	2.000	U	2.000	U	2.000	U	MS
Cobalt	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS
Copper	2.000	U	2.000	U	0.076	J	2.000	U	2.000	U	MS
Iron											NR
Lead	0.021	J	1.000	U	0.018	J	1.000	U	1.000	U	MS
Magnesium											NR
Manganese	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS
Mercury	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	CV
Nickel	1.000	U	1.000	U	1.000	U	1.000	U	-0.054	J	MS
Potassium											NR
Selenium	5.000	U	5.000	U	5.000	U	5.000	U	5.000	U	MS
Silver	0.047	J	1.000	U	0.029	J	1.000	U	1.000	U	MS
Sodium											NR
Thallium	0.048	J	1.000	U	1.000	U	1.000	U	1.000	U	MS
Vanadium	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS
Zinc	2.000	U	2.000	U	2.000	U	2.000	U	0.752	J	MS
Cyanide	2.200	J	2.120	J	1.900	J	1.910	J	1.480	J	AS

USEPA - CLP

4B-IN
ICP-MS INTERFERENCE CHECK SAMPLE

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: MB0010

ICP-MS Instrument ID: M1 ICS Source: EPA ICSA0803

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Found Sol. A	Found %R	Found Sol. AB	Found %R
Aluminum	100000	100000	82700	83	84800	85
Antimony	1.5	22.0	1.7	113	23.0	105
Arsenic	0.10	19.0	2.1	2100	21.5	113
Barium	1.2	22.0	1.4	117	22.2	101
Beryllium	0	19.0	0.22		20.3	107
Cadmium	0.70	20.0	-0.14	-20	21.2	106
Calcium	100000	100000	105000	105	106000	106
Carbon						
Chloride						
Chromium	21.0	40.0	18.3	87	36.8	92
Cobalt	1.0	20.0	1.2	120	19.3	97
Copper	8.0	25.0	8.2	103	27.7	111
Iron						
Lead	4.0	25.0	5.8	145	26.1	104
Magnesium	100000	100000	88900	89	90400	90
Manganese	7.0	27.0	7.9	113	25.4	94
Molybdenum						
Nickel	6.0	24.0	5.3	88	23.3	97
Phosphorus						
Potassium						
Selenium	0.30	19.0	-0.063	-21	19.8	104
Silver	0	18.0	0.036		19.9	111
Sodium						
Sulfur						
Thallium	0	21.0	0.13		21.7	103
Titanium						
Vanadium	0.50	19.0	1.0	200	17.9	94
Zinc	11.0	29.0	13.4	122	31.0	107

USEPA - CLP

5A-IN
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME0020S

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0010

Matrix: (soil/water) WATER Level: (low/med) LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	102.8363		2.0000	U	100.00	103		MS
Arsenic	75-125	43.6430		1.8108		40.00	105		MS
Barium	75-125	1820.3603		11.8704		2000.00	90		MS
Beryllium	75-125	51.2818		1.0000	U	50.00	103		MS
Cadmium	75-125	51.2688		1.0000	U	50.00	103		MS
Calcium									NR
Chromium	75-125	198.3644		0.1045	J	200.00	99		MS
Cobalt	75-125	460.2633		0.1790	J	500.00	92		MS
Copper	75-125	239.9710		0.7970	J	250.00	96		MS
Iron									NR
Lead	75-125	20.7364		0.2674	J	20.00	102		MS
Magnesium									NR
Manganese	75-125	513.6489		84.9400		500.00	86		MS
Mercury	75-125	0.8300		0.2000	U	1.00	83		CV
Nickel	75-125	472.3566		0.9343	J	500.00	94		MS
Potassium									NR
Selenium	75-125	9.7395		5.0000	U	10.00	97		MS
Silver	75-125	37.8764		1.0000	U	50.00	76		MS
Sodium									NR
Thallium	75-125	51.7470		1.0000	U	50.00	103		MS
Vanadium	75-125	497.2991		1.0000	U	500.00	99		MS
Zinc	75-125	467.4324		5.7270		500.00	92		MS
Cyanide	75-125	101.9900		2.0500	J	100.00	100		AS

Comments:

USEPA - CLP

6-IN
DUPLICATES

EPA SAMPLE NO.

ME0020D

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0010

Matrix: (soil/water) WATER Level: (low/med) LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony		2.0000	U	2.0000	U			MS
Arsenic	1.0	1.8108		1.9526		8		MS
Barium	10.0	11.8704		11.5916		2		MS
Beryllium		1.0000	U	1.0000	U			MS
Cadmium		1.0000	U	1.0000	U			MS
Calcium								NR
Chromium		0.1045	J	0.1073	J	3		MS
Cobalt		0.1790	J	0.1534	J	15		MS
Copper		0.7970	J	0.8111	J	2		MS
Iron								NR
Lead		0.2674	J	0.2299	J	15		MS
Magnesium								NR
Manganese		84.9400		85.4935		1		MS
Mercury		0.2000	U	0.2000	U			CV
[illegible]		0.9343	J	0.9911	J	6		MS
Potassium								NR
Selenium		5.0000	U	5.0000	U			MS
Silver		1.0000	U	1.0000	U			MS
Sodium								NR
Thallium		1.0000	U	0.0556	J	200		MS
Vanadium		1.0000	U	1.0000	U			MS
Zinc	2.0	5.7270		6.1016		6		MS
Cyanide		2.0500	J	1.6800	J	20		AS

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Sentinel, Inc. Contract: 68-W-02-0c0

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME3010

Instrument Type: MS Instrument ID: M1 Date: 01/15/2006

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum			
Antimony	121.00	2	0.085
Arsenic	75.00	1	0.14
Barium	137.00	10	0.090
Beryllium	9.00	1	0.075
Cadmium	111.00	1	0.12
Calcium			
Chromium	52.00	2	0.060
Cobalt	59.00	1	0.021
Copper	65.00	2	0.055
Iron			
Lead	208.00	1	0.016
Magnesium			
Manganese	55.00	1	0.046
Mercury			
Nickel	60.00	1	0.11
Potassium			
Selenium	78.00	5	0.70
Silver	107.00	1	0.027
Sodium			
Thallium	203.00	1	0.030
Vanadium	51.00	1	0.061
Zinc	66.00	2	0.44
Cyanide			

Comments:
M1: TJA ICP-MS

28

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Sentinel, Inc. Contract: 68-W-02-080

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0010

Instrument Type: MS Instrument ID: M1 Date: 01/15/2006

Preparation Method: HW2

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum			
Antimony	121.00	2	0.30
Arsenic	75.00	1	0.20
Barium	137.00	10	0.23
Beryllium	9.00	1	0.094
Cadmium	111.00	1	0.11
Calcium			
Chromium	52.00	2	0.058
Cobalt	59.00	1	0.022
Copper	65.00	2	0.37
Iron			
Lead	208.00	1	0.083
Magnesium			
Manganese	55.00	1	0.087
Mercury			
Nickel	60.00	1	0.052
Potassium			
Selenium	78.00	5	1.7
Silver	107.00	1	0.027
Sodium			
Thallium	203.00	1	0.054
Vanadium	51.00	1	0.12
Zinc	66.00	2	0.70
Cyanide			

Comments:
M1: TJA ICP-MS

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0010

Instrument Type: CV Instrument ID: C6 Date: 01/15/2006

Preparation Method: CW1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		200	
Antimony		60	
Arsenic		10	
Barium		200	
Beryllium		5	
Cadmium		5	
Calcium		5000	
Chromium		10	
Cobalt		50	
Copper		25	
Iron		100	
Lead		10	
Magnesium		5000	
Manganese		15	
Mercury	253.70	0.2	0.085
Nickel		40	
Potassium		5000	
Selenium		35	
Silver		10	
Sodium		5000	
Thallium		25	
Vanadium		50	
Zinc		60	
Cyanide		10	

Comments:
C6: CETAC M6000

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: [illegible]

Instrument Type: AS Instrument ID: C1 Date: 01/15/2006

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		200	
Antimony		60	
Arsenic		10	
Barium		200	
Beryllium		5	
Cadmium		5	
Calcium		5000	
Chromium		10	
Cobalt		50	
Copper		25	
Iron		100	
Lead		10	
Magnesium		5000	
Manganese		15	
Mercury		0.2	
Nickel		40	
Potassium		5000	
Selenium		35	
Silver		10	
Sodium		5000	
Thallium		25	
Vanadium		50	
Zinc		60	
Cyanide	580.00	10	0.39

Comments:
C1: LACHAT

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: MEC010

Instrument Type: AS Instrument ID: C1 Date: 01/15/2006

Preparation Method: DW?

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		200	
Antimony		60	
Arsenic		10	
Barium		200	
Beryllium		5	
Cadmium		5	
Calcium		5000	
Chromium		10	
Cobalt		50	
Copper		25	
Iron		100	
Lead		10	
Magnesium		5000	
Manganese		15	
Mercury		0.2	
Nickel		40	
Potassium		5000	
Selenium		35	
Silver		10	
Sodium		5000	
Thallium		25	
Vanadium		50	
Zinc		60	
Cyanide	580.00	10	0.42

Comments:
C1: LACHAT

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0010

Instrument ID: M1 Analysis Method: MS

Start date: 04/30/2006 End date: 04/30/2006

EPA Sample No.	D/F	Time	Analytes																						
			ALB	SBS	ASA	BAE	BDA	CAR	CCO	CUP	CEB	FBG	MGN	MGN	HGI	NKE	SEG	AAL	NTN	TZN	VZN	CN	
BLKF	1.00	1157				X				X			X	X									
ISO	1.00	1220	X	X	X	X	X	X	X	X	X		X	X	X		X		X	X		X	X		
S200.0	1.00	1225	X	X	X	X	X	X	X	X	X		X	X	X		X		X	X		X	X		
ICV	1.00	1230		X	X	X	X	X		X	X	X		X		X		X		X		X	X		
ICB	1.00	1235		X	X	X	X	X		X	X	X		X		X		X		X	X	X	X		
CRI	1.00	1240		X	X	X	X	X		X	X	X		X		X		X		X	X	X	X		
ICSA	5.00	1245	X	X	X	X	X	X	X	X	X	X		X	X	X		X		X	X	X	X		
ICSAB	5.00	1250	X	X	X	X	X	X	X	X	X	X		X	X	X		X		X	X	X	X		
CCV	1.00	1255		X	X	X	X	X		X	X	X		X		X		X		X	X	X	X		
CCB	1.00	1300		X	X	X	X	X		X	X	X		X		X		X		X	X	X	X		
PBW	1.00	1305		X	X	X	X	X		X	X	X		X		X		X		X	X	X	X		
LCSW	1.00	1309		X	X	X	X	X		X	X	X		X		X		X		X	X	X	X		
ME0020L	5.00	1314		X	X	X	X	X		X	X	X		X		X		X		X	X	X	X		
ME0020	1.00	1319		X	X	X	X	X		X	X	X		X		X		X		X	X	X	X		
ME0020D	1.00	1324		X	X	X	X	X		X	X	X		X		X		X		X	X	X	X		
ME0020S	1.00	1329		X	X	X	X	X		X	X	X		X		X		X		X	X	X	X		
ME0020A	1.00	1334																							
ME0010	1.00	1339		X	X	X	X	X		X	X	X		X		X		X		X	X	X	X		
ME0011	1.00	1344		X	X	X	X	X		X	X	X		X		X		X		X	X	X	X		
ZZZZZZ	1.00	1349																							
CCV	1.00	1354		X	X	X	X	X		X	X	X		X		X		X		X	X	X	X		
CCB	1.00	1359		X	X	X	X	X		X	X	X		X		X		X		X	X	X	X		
ME0022	1.00	1404		X	X	X	X	X		X	X	X		X		X		X		X	X	X	X		
ME0023	1.00	1409		X	X	X	X	X		X	X	X		X		X		X		X	X	X	X		
ME0024	1.00	1414		X	X	X	X	X		X	X	X		X		X		X		X	X	X	X		
ME0025	1.00	1419		X	X	X	X	X		X	X	X		X		X		X		X	X	X	X		
ME0035	1.00	1423		X	X	X	X	X		X	X	X		X		X		X		X	X	X	X		
ZZZZZZ	1.00	1428																							
CRI	1.00	1433		X	X	X	X	X		X	X	X		X		X		X		X	X	X	X		
CCV	1.00	1438		X	X	X	X	X		X	X	X		X		X		X		X	X	X	X		
CCB	1.00	1443		X	X	X	X	X		X	X	X		X		X		X		X	X	X	X		

FORM XIII-IN ILM05.3

37

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0010

Instrument ID: M1 Analysis Method: MS

Start date: 05/02/2006 End date: 05/02/2006

EPA Sample No.	D/F	Time	Analytes																						
			ALB	SB	ASA	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	KE	SE	AG	NA	TL	VN	ZN	CN
TUNE	1.00	1031					X				X			X	X											
S0	1.00	1043																							X	
S200.0	1.00	1048																							X	
ICV	1.00	1052																							X	
ICB	1.00	1057																							X	
CRI	1.00	1102																							X	
ICSA	5.00	1107																							X	
ICSAB	5.00	1112																							X	
CCV	1.00	1117																							X	
CCB	1.00	1122																							X	
PBW	1.00	1127																							X	
LCSW	1.00	1132																							X	
ME0020L	5.00	1137																							X	
ME0020	1.00	1142																							X	
ME0020D	1.00	1147																							X	
ME0020S	1.00	1152																							X	
ME0020A	1.00	1156																								
ME0010	1.00	1201																							X	
ME0011	1.00	1206																							X	
ZZZZZZ	1.00	1211																								
CCV	1.00	1216																							X	
CCB	1.00	1221																							X	
ME0022	1.00	1226																							X	
ME0023	1.00	1231																							X	
ME0024	1.00	1236																							X	
ME0025	1.00	1241																							X	
ME0035	1.00	1246																							X	
ZZZZZZ	1.00	1251																								
CRI	1.00	1256																							X	
CCV	1.00	1301																							X	
CCB	1.00	1306																							X	

FORM XIII-IN ILM05.3

15-IN
ICP-MS Internal Standards Relative Intensity Summary

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0010

ICP-MS Instrument ID: M1 Start date: 04/30/2006 End date: 04/30/2006

EPA Sample No.	Time	Internal Standards %RI for:									
		Element LI6	Q	Element SC45	Q	Element Y89	Q	Element RH103	Q	Element IN115	Q
S0	1220	100		100		100		100		100	
S200.0	1225	91		93		104		105		102	
ICV	1230	93		93		101		101		103	
ICB	1235	94		93		93		93		92	
CRI	1240	94		95		94		94		93	
ICSA	1245	88		107		108		109		106	
ICSAB	1250	87		105		106		108		105	
CCV	1255	88		87		97		98		99	
CCB	1300	90		90		90		91		91	
PBW	1305	92		90		93		94		92	
LCSW	1309	91		88		97		99		101	
ME0020L	1314	91		104		102		100		102	
ME0020	1319	84		93		100		96		99	
ME0020D	1324	83		93		99		95		99	
ME0020S	1329	81		94		100		95		98	
ME0020A	1334	82		92		98		95		98	
ME0010	1339	79		85		89		89		92	
ME0011	1344	80		95		96		94		97	
CCV	1354	81		79		92		95		97	
CCB	1359	82		80		86		88		89	
ME0022	1404	82		81		87		88		88	
ME0023	1409	80		82		90		90		94	
ME0024	1414	78		83		90		89		93	
ME0025	1419	81		93		96		94		99	
ME0035	1423	82		87		95		92		96	
CRI	1433	85		82		87		89		88	
CCV	1438	84		78		91		94		96	
CCB	1443	83		80		84		86		86	

USEPA - CLP

15-IN
ICP-MS Internal Standards Relative Intensity Summary

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0016

ICP-MS Instrument ID: M1 Start date: 04/30/2006 End date: 04/30/2006

EPA Sample No.	Time	Internal Standards %RI for: Element TB159	Q	Element HO165	Q	Element BI209	Q	Element	Q	Element	Q
S0	1220	100		100		100					
S200.0	1225	105		100		100					
ICV	1230	105		100		99					
ICB	1235	93		95		93					
CRI	1240	95		96		94					
ICSA	1245	111		110		103					
ICSAB	1250	109		108		104					
CCV	1255	102		99		97					
CCB	1300	92		95		93					
PBW	1305	95		96		95					
LCSW	1309	105		101		101					
ME0020L	1314	106		109		102					
ME0020	1319	104		105		98					
ME0020D	1324	106		105		98					
ME0020S	1329	108		102		96					
ME0020A	1334	107		106		98					
ME0010	1339	100		101		96					
ME0011	1344	105		105		99					
CCV	1354	102		99		101					
CCB	1359	94		97		97					
ME0022	1404	95		96		96					
ME0023	1409	103		105		101					
ME0024	1414	103		104		100					
ME0025	1419	110		110		103					
ME0035	1423	106		107		101					
CRI	1433	94		96		96					
CCV	1438	103		99		99					
CCB	1443	92		93		92					

USEPA - CLP

15-IN

ICP-MS Internal Standards Relative Intensity Summary

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0010

ICP-MS Instrument ID: M1 Start date: 05/02/2006 End date: 05/02/2006

EPA Sample No.	Time	Internal Standards %RI for: Element LI6	Q	Element SC45	Q	Element Y89	Q	Element RH103	Q	Element IN115	Q
S0	1043	100		100		100		100		100	
S200.0	1048	92		92		102		101		99	
ICV	1052	93		93		100		97		100	
ICB	1057	94		94		93		93		92	
CRI	1102	96		95		94		94		94	
ICSA	1107	88		112		107		105		103	
ICSAB	1112	90		113		107		106		103	
CCV	1117	92		88		95		94		95	
CCB	1122	95		92		91		91		90	
PBW	1127	94		94		93		92		91	
LCSW	1132	93		91		96		92		97	
ME0020L	1137	94		112		105		98		101	
ME0020	1142	90		110		106		98		98	
ME0020D	1147	90		112		107		98		99	
ME0020S	1152	87		110		104		94		95	
ME0020A	1156	90		110		106		97		93	
ME0010	1201	88		99		96		92		93	
ME0011	1206	89		111		101		95		98	
CCV	1216	89		90		94		93		94	
CCB	1221	89		90		89		87		86	
ME0022	1226	90		92		90		88		87	
ME0023	1231	87		94		97		94		97	
ME0024	1236	86		95		96		93		96	
ME0025	1241	89		108		104		98		100	
ME0035	1246	91		107		106		98		100	
CRI	1256	93		93		92		91		89	
CCV	1301	89		87		93		92		93	
CCB	1306	90		87		88		87		86	

USEPA - CLP

15-IN
ICP-MS Internal Standards Relative Intensity Summary

Lab Name: Sentinel, Inc. Contract: 68-W-02-060

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0010

ICP-MS Instrument ID: M1 Start date: 05/02/2006 End date: 05/02/2006

EPA Sample No.	Time	Internal Standards %RI for: Element TB159	Q	Element HO165	Q	Element BI209	Q	Element	Q	Element	Q
SD	1043	100		100		100					
S200.0	1048	102		95		96					
ICV	1052	102		96		98					
ICB	1057	93		92		91					
CRI	1102	95		93		93					
ICSA	1107	107		103		100					
ICSAB	1112	106		103		101					
CCV	1117	96		90		92					
CCB	1122	90		89		88					
PBW	1127	90		90		91					
LCSW	1132	100		95		95					
ME0020L	1137	103		101		98					
ME0020	1142	100		97		90					
ME0020D	1147	99		96		90					
ME0020S	1152	99		91		86					
ME0020A	1156	100		96		90					
ME0010	1201	95		94		90					
ME0011	1206	100		97		92					
CCV	1216	94		89		91					
CCB	1221	87		85		86					
ME0022	1226	88		87		88					
ME0023	1231	100		99		96					
ME0024	1236	100		98		96					
ME0025	1241	104		103		99					
ME0035	1246	104		101		96					
CRI	1256	89		89		90					
CCV	1301	96		90		92					
CCB	1306	87		86		88					

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: ME0010 CERCLIS No: ILD980794929

Case No: 35929 Site Name/Location: DUNAVAN OIL (IL)

Contractor or EPA Lab: SENTINEL INC. Data User: IEPA

No. of Samples: 8 Date Sampled or Date Received: 5/4/06

Have Chain-of-Custody records been received? Yes X No ____
Have traffic reports or packing lists been received? Yes X No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes X No ____
No of samples claimed: ____ No. of samples received: ____

Received by: Dawn Johnson Date: 5/4/06

Received by LSSS: Dawn Johnson Date: 5/4/06

Review started: 5-25-06 Reviewer Signature: [signature]

Total time spent on review: 10 +1.5 Date review completed: 5-30-06

Copied by: ____ Date: ____

Mailed to user by: ____ Date: ____

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

____

____

Received by Data Mgmt. Coordinator for Files. Date: ____

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 6/5/06

SUBJECT: **Review of Data**
Received for review on 5/4/06

FROM: **Stephen L. Ostrodka, Chief (SMF-4J)**
Superfund Field Services Section

TO: **Data User:** IEPA

We have reviewed the data by CADRE for the following case:

SITE NAME: Dunavan Oil (IL)

CASE NUMBER: 35229 **SDG NUMBER:** ME0028

Number and Type of Samples: 12 soils

Sample Numbers: ME0028-34, 36-40

Laboratory: Sentinel Hrs. for Review: _____

Following are our findings:

CC: Howard Pham
Region 5 TOPO

Case: 35148
Site: Copley Square Plaza (OH)

Mail Code: SRT-4J

SDG: ME0190
Laboratory: Sentinel

Case: 35229 SDG: ME0028 3 of 7
Site: Dunavan Oil (IL) Laboratory: Sentinel

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Twelve (12) soil samples, numbered ME0028-34, 36-40, were collected between April 6 and April 13, 2006. The lab received the samples on April 14, 2006 in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ILM05.3 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES)

Errors were found and corrected on Form Is by this reviewer.

One of the standards used in making the ICP calibration curve was expired as were all but one of the standards used in making the CCV solution. As none of the elements in these solutions are listed, the affect on the data is not known. No sample results are qualified for the expired standards. The 0.25N NaOH reagent for cyanide analysis was also expired.

Reviewed by: Stephen Connet
Date: June 5, 2006

Case: 35229 SDG: ME0028 4 of 7
Site: Dunavan Oil (IL) Laboratory: Sentinel

1. HOLDING TIME:

The following inorganic cyanide samples did not meet primary holding time criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Cyanide
ME0033

The inorganic soil samples were reviewed for holding time violations using criteria developed for water samples.

2. CALIBRATIONS:

No defects were found for the calibration or the CRQL standard.

3. BLANKS:

The following inorganic samples are associated with an ICB/CCB or preparation blank concentrations which is greater than the method detection limit (MDL) but less than or equal to the CRQL. The sample result is greater than the MDL but less than or equal to the CRQL.
Hits are qualified "U". The sample result is raised to the CRQL.

Beryllium
ME0028, ME0030, ME0032, ME0033, ME0036, ME0039, ME0040

Copper
ME0040

Magnesium
ME0040

Sodium
ME0028, ME0029, ME0030, ME0031, ME0032, ME0033, ME0034, ME0036, ME0037, ME0038, ME0039

Vanadium
ME0029, ME0031

Cyanide
ME0028, ME0029, ME0030, ME0031, ME0032, ME0033, ME0034, ME0036, ME0038, ME0039, ME0040

The following inorganic samples are associated with a negative ICB/CCB concentration whose absolute value is greater than the method detection limit (MDL) but less than or equal to the CRQL. The sample result is also greater than the MDL but less than or equal to the

CRQL.

Hits are qualified "U". The sample result is raised to the CRQL.

Copper

ME0040

The following inorganic samples are associated with a negative CCB concentration whose absolute value is greater than the method detection limit (MDL) but less than or equal to the CRQL. The sample result is also greater than the MDL but less than or equal to the CRQL.

Hits are qualified "U". The sample result is raised to the CRQL.

Cobalt

ME0028, ME0030, ME0032, ME0034, ME0036

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

The following inorganic samples are associated with a matrix spike recovery which is high (>125%) indicating that sample results may be biased high. The required post spike was performed and results were less than or equal to 125%.

Hits are qualified "J"; non-detects are not qualified.

Manganese

ME0028, ME0029, ME0030, ME0031, ME0032, ME0033, ME0034, ME0036, ME0037, ME0038, ME0039, ME0040

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. The required post spike was performed and results were greater than or equal to 75%.

Hits are qualified "J" and non-detects are qualified "UJ".

Antimony

ME0028, ME0029, ME0030, ME0031, ME0032, ME0033, ME0034, ME0036, ME0037, ME0038, ME0039, ME0040

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. The required post spike was performed and results were less than 75%.

Hits are qualified "J-" and non-detects are qualified "UJ".

Thallium

ME0028, ME0029, ME0030, ME0031, ME0032, ME0033, ME0034, ME0036, ME0037, ME0038, ME0039, ME0040

No defects were found for the laboratory control sample.

5. LABORATORY AND FIELD DUPLICATE:

No defects were found for the laboratory duplicate sample. No samples were identified as field duplicates.

6. ICP ANALYSIS:

The following inorganic sample results are affected by an interference check "A" sample (ICSA) for which consistent false positive concentration values greater than the MDL were obtained. The sample contains Al, Ca, Fe, or Mg at a level comparable to the ICSA.

Hits less than 10 times the value of the ICSA are qualified "J+"; non-detects are not qualified. Hits greater than 10 times the ICSA are not qualified.

Selenium

ME0028, ME0029, ME0030, ME0031, ME0032, ME0033, ME0034, ME0036, ME0037, ME0038, ME0039, ME0040

The following results are affected by an interference check "A" sample (ICSA) for which consistent false negative concentration values greater than the absolute value of the MDL were obtained. The sample contains Al, Ca, Fe or Mg at a level comparable to that of the ICSA.

Hits less than 10 times the absolute value of the ICSA are qualified "J-", non-detects are qualified "UJ". Hits greater than 10 times the ICSA are not qualified.

Beryllium

ME0028, ME0030, ME0032, ME0033, ME0036, ME0039, ME0040

Copper

ME0028, ME0030, ME0031, ME0032, ME0036, ME0039, ME0040

Lead

ME0028, ME0029, ME0031, ME0032, ME0036, ME0037, ME0039

Silver

ME0028, ME0029, ME0030, ME0031, ME0032, ME0033, ME0034, ME0036, ME0037, ME0038, ME0039, ME0040

Zinc

ME0040

No defects were found for the serial dilution sample.

7. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).

Results are qualified "J".

Antimony
ME0033, ME0034

Barium
ME0028, ME0029, ME0031, ME0036

Cadmium
ME0028, ME0029, ME0030, ME0031, ME0032, ME0034, ME0036, ME0037, ME0038

Mercury
ME0029, ME0032, ME0034, ME0036, ME0040

Potassium
ME0029, ME0030, ME0031, ME0033, ME0036

Selenium
ME0028, ME0029, ME0030, ME0031, ME0032, ME0033, ME0034, ME0036, ME0037, ME0038, ME0039, ME0040

Thallium
ME0030

All data, except those qualified above, are acceptable.

Reviewed by: Stephen Connet
Date: June 5, 2006

Case: 35229 SDG: ME0028 8 of 7
Site: Dunavan Oil (IL) Laboratory: Sentinel

CADRE ILM05.3 Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Reviewed by: Stephen Connet
Date: June 5, 2006

Analytical Results (Qualified Data)

Case #: 35229 SDG : ME0028
Site : DUNAVAN OIL
Lab. : SENTIN
Reviewer : S. CONNET
Date : 06/05/06

Number of Soil Samples : 12
Number of Water Samples : 0

Sample Number :	ME0028		ME0029		ME0030		ME0031		ME0032	
Sampling Location :	X115		S106		S107		S108		X116	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	4/12/2006		4/12/2006		4/12/2006		4/12/2006		4/13/2006	
Time Sampled :	16:55		17:20		17:40		18:00		08:30	
%Solids :	87.2		54.3		66.3		53.0		86.8	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	5030		11200		4150		6900		5270	
ANTIMONY	6.9	UJ	11.0	UJ	9.0	UJ	11.3	UJ	6.9	UJ
ARSENIC	4.1		5.4		11.3		10.1		6.0	
BARIUM	15.0	J	22.6	J	48.9		24.2	J	24.2	
BERYLLIUM	0.57	UJ	1.5		0.75	UJ	1.7		0.58	UJ
CADMIUM	0.081	J	0.89	J	0.36	J	0.76	J	0.11	J
CALCIUM	50900		7800		8590		8780		39400	
CHROMIUM	9.6		7.5		5.8		4.9		9.4	
COBALT	5.7	U	36.3		7.5	U	14.0		5.8	U
COPPER	11.0	J-	63.1		18.4	J-	13.6	J-	14.0	J-
IRON	13000		22300		16400		10100		13800	
LEAD	9.0	J-	17.8	J-	36.7		20.7	J-	10.3	J-
MAGNESIUM	28000		3520		2270		3660		20200	
MANGANESE	424	J	2230	J	531	J	971	J	355	J
MERCURY	0.11	U	0.074	J	0.25		0.19	U	0.042	J
NICKEL	15.3		37.1		9.3		40.9		15.4	
POTASSIUM	1160		381	J	674	J	406	J	1100	
SELENIUM	0.60	J+	1.9	J+	1.5	J+	1.1	J+	0.79	J+
SILVER	1.1	UJ	1.8	UJ	1.5	UJ	1.9	UJ	1.2	UJ
SODIUM	573	U	921	U	754	U	943	U	576	U
THALLIUM	2.9	UJ	4.6	UJ	0.53	J-	4.7	UJ	2.9	UJ
VANADIUM	8.5		9.2	U	8.8		9.4	U	10.1	
ZINC	40.1		90.8		81.3		145		41.0	
CYANIDE	2.9	U	4.6	U	3.8	U	4.7	U	2.9	U

Analytical Results (Qualified Data)

Case #: 35229 SDG : ME0028
Site : DUNAVAN OIL
Lab. : SENTIN
Reviewer : S. CONNET
Date : 06/05/06

Sample Number :	ME0033		ME0034		ME0036		ME0037		ME0038	
Sampling Location :	X117		X118		S103		S104		S105	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	4/6/2006		4/13/2006		4/13/2006		4/13/2006		4/13/2006	
Time Sampled :	08:45		09:00		10:05		11:00		11:00	
%Solids :	67.4		57.3		83.7		68.7		87.7	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	3980		7580		4460		20500		17900	
ANTIMONY	4.2	J	1.3	J	7.2	UJ	8.7	UJ	6.8	UJ
ARSENIC	6.2		31.9		3.6		4.1		3.1	
BARIUM	204		125		21.1	J	39.1		34.8	
BERYLLIUM	0.74	UJ	1.0		0.60	UJ	1.4		0.98	
CADMIUM	1.7		0.68	J	0.16	J	0.57	J	0.37	J
CALCIUM	10900		38700		3440		2670		2010	
CHROMIUM	962		12.2		6.1		22.4		17.7	
COBALT	17.3		8.7	U	6.0	U	36.9		20.3	
COPPER	217		34.7		10.3	J-	38.2		37.9	
IRON	16600		31600		10700		39000		32300	
LEAD	4890		83.0		11.8	J-	14.9	J-	12.7	
MAGNESIUM	2990		15500		2150		6110		4650	
MANGANESE	322	J	573	J	164	J	950	J	405	J
MERCURY	0.75		0.059	J	0.069	J	0.15	U	0.11	U
NICKEL	11.9		20.9		9.9		54.0		38.4	
POTASSIUM	653	J	1450		567	J	1300		941	
SELENIUM	1.5	J+	1.6	J+	0.84	J+	1.6	J+	1.2	J+
SILVER	1.5	UJ	1.7	UJ	1.2	UJ	1.5	UJ	1.1	UJ
SODIUM	742	U	873	U	597	U	728	U	570	U
THALLIUM	3.7	UJ	4.4	UJ	3.0	UJ	3.6	UJ	2.9	UJ
VANADIUM	8.4		21.4		7.8		21.9		16.9	
ZINC	7000		119		36.8		202		159	
CYANIDE	3.7	UJ	4.4	U	3.0	U	3.6	U	2.9	U

Analytical Results (Qualified Data)

Case #: 35229 SDG : ME0028
Site : DUNAVAN OIL
Lab. : SENTIN
Reviewer : S. CONNET
Date : 06/05/06

Sample Number :	ME0039		ME0040							
Sampling Location :	S109		S110							
Matrix :	Soil		Soil							
Units :	mg/Kg		mg/Kg							
Date Sampled :	4/13/2006		4/13/2006							
Time Sampled :	10:20		10:40							
%Solids :	73.6		63.0							
Dilution Factor :	1.0		1.0							
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	5980		1720							
ANTIMONY	8.2	UJ	9.5	UJ						
ARSENIC	5.0		22.9							
BARIUM	36.4		67.6							
BERYLLIUM	0.68	UJ	0.79	UJ						
CADMIUM	0.68	U	0.79	U						
CALCIUM	8050		2090							
CHROMIUM	11.3		3.9							
COBALT	8.1		7.9	U						
COPPER	10.4	J-	4.0	UJ						
IRON	21600		56700							
LEAD	10.4	J-	57.5							
MAGNESIUM	4890		794	U						
MANGANESE	1050	J	51.6	J						
MERCURY	0.14	U	0.073	J						
NICKEL	17.4		2.5	J						
POTASSIUM	752		2750							
SELENIUM	1.4	J+	2.8	J+						
SILVER	1.4	UJ	1.6	UJ						
SODIUM	679	U	2060							
THALLIUM	3.4	UJ	20.3	J-						
VANADIUM	13.9		13.4							
ZINC	50.6		17.8	J-						
CYANIDE	3.4	U	4.0	UJ						

DATE: June 9, 2006

IEPA
Attn: Mr. Bob Casper
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

SITE NAME: Dunavan Oil (IL)

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
35229	Sentinel	12	ME0028	soil

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: **U.S. EPA - Region 5**
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat Johnson
Data Coordinator
ESAT Region 5 **TechLaw**

JUN 12 2006

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 6/5/06

SUBJECT: Review of Data
Received for review on 5/4/06

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data by CADRE for the following case:

SITE NAME: Dunavan Oil (IL)

CASE NUMBER: 35229 **SDG NUMBER:** ME0028

Number and Type of Samples: 12 soils

Sample Numbers: ME0028-34, 36-40

Laboratory: Sentinel Hrs. for Review: 16

Following are our findings: 1.0

CC: Howard Pham
Region 5 TOPO
Mail Code: SRT-4J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Twelve (12) soil samples, numbered ME0028-34, 36-40, were collected between April 6 and April 13, 2006. The lab received the samples on April 14, 2006 in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ILM05.3 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES)

Errors were found and corrected on Form Is by this reviewer.

One of the standards used in making the ICP calibration curve was expired as were all but one of the standards used in making the CCV solution. As none of the elements in these solutions are listed, the affect on the data is not known. No sample results are qualified for the expired standards. The 0.25N NaOH reagent for cyanide analysis was also expired.

1. HOLDING TIME:

The following inorganic cyanide samples did not meet primary holding time criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Cyanide
ME0033

The inorganic soil samples were reviewed for holding time violations using criteria developed for water samples.

2. CALIBRATIONS:

No defects were found for the calibration or the CRQL standard.

3. BLANKS:

The following inorganic samples are associated with an ICB/CCB or preparation blank concentrations which is greater than the method detection limit (MDL) but less than or equal to the CRQL. The sample result is greater than the MDL but less than or equal to the CRQL.
Hits are qualified "U". The sample result is raised to the CRQL.

Beryllium
ME0028, ME0030, ME0032, ME0033, ME0036, ME0039, ME0040

Copper
ME0040

Magnesium
ME0040

Sodium
ME0028, ME0029, ME0030, ME0031, ME0032, ME0033, ME0034, ME0036, ME0037, ME0038, ME0039

Vanadium
ME0029, ME0031

Cyanide
ME0028, ME0029, ME0030, ME0031, ME0032, ME0033, ME0034, ME0036, ME0038, ME0039, ME0040

The following inorganic samples are associated with a negative ICB/CCB concentration whose absolute value is greater than the method detection limit (MDL) but less than or equal to the CRQL. The sample result is also greater than the MDL but less than or equal to the CRQL.

Hits are qualified "U". The sample result is raised to the CRQL.

Copper
ME0040

The following inorganic samples are associated with a negative CCB concentration whose absolute value is greater than the method detection limit (MDL) but less than or equal to the CRQL. The sample result is also greater than the MDL but less than or equal to the CRQL.
Hits are qualified "U". The sample result is raised to the CRQL.

Cobalt
ME0028, ME0030, ME0032, ME0034, ME0036

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

The following inorganic samples are associated with a matrix spike recovery which is high (>125%) indicating that sample results may be biased high. The required post spike was performed and results were less than or equal to 125%.
Hits are qualified "J"; non-detects are not qualified.

Manganese
ME0028, ME0029, ME0030, ME0031, ME0032, ME0033, ME0034, ME0036, ME0037, ME0038, ME0039, ME0040

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. The required post spike was performed and results were greater than or equal to 75%.
Hits are qualified "J" and non-detects are qualified "UJ".

Antimony
ME0028, ME0029, ME0030, ME0031, ME0032, ME0033, ME0034, ME0036, ME0037, ME0038, ME0039, ME0040

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. The required post spike was performed and results were less than 75%.
Hits are qualified "J-" and non-detects are qualified "UJ".

Thallium
ME0028, ME0029, ME0030, ME0031, ME0032, ME0033, ME0034, ME0036, ME0037, ME0038, ME0039, ME0040

No defects were found for the laboratory control sample.

5. LABORATORY AND FIELD DUPLICATE:

No defects were found for the laboratory duplicate sample. No samples were identified as

field duplicates.

6. ICP ANALYSIS:

The following inorganic sample results are affected by an interference check "A" sample (ICSA) for which consistent false positive concentration values greater than the MDL were obtained. The sample contains Al, Ca, Fe, or Mg at a level comparable to the ICSA.

Hits less than 10 times the value of the ICSA are qualified "J+"; non-detects are not qualified. Hits greater than 10 times the ICSA are not qualified.

Selenium

ME0028, ME0029, ME0030, ME0031, ME0032, ME0033, ME0034, ME0036, ME0037, ME0038, ME0039, ME0040

The following results are affected by an interference check "A" sample (ICSA) for which consistent false negative concentration values greater than the absolute value of the MDL were obtained. The sample contains Al, Ca, Fe or Mg at a level comparable to that of the ICSA.

Hits less than 10 times the absolute value of the ICSA are qualified "J-", non-detects are qualified "UJ". Hits greater than 10 times the ICSA are not qualified.

Beryllium

ME0028, ME0030, ME0032, ME0033, ME0036, ME0039, ME0040

Copper

ME0028, ME0030, ME0031, ME0032, ME0036, ME0039, ME0040

Lead

ME0028, ME0029, ME0031, ME0032, ME0036, ME0037, ME0039

Silver

ME0028, ME0029, ME0030, ME0031, ME0032, ME0033, ME0034, ME0036, ME0037, ME0038, ME0039, ME0040

Zinc

ME0040

No defects were found for the serial dilution sample.

7. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).

Results are qualified "J".

Antimony

ME0033, ME0034

Barium
ME0028, ME0029, ME0031, ME0036

Cadmium
ME0028, ME0029, ME0030, ME0031, ME0032, ME0034, ME0036, ME0037, ME0038

Mercury
ME0029, ME0032, ME0034, ME0036, ME0040

Potassium
ME0029, ME0030, ME0031, ME0033, ME0036

Selenium
ME0028, ME0029, ME0030, ME0031, ME0032, ME0033, ME0034, ME0036, ME0037, ME0038, ME0039, ME0040

Thallium
ME0030

All data, except those qualified above, are acceptable.

CADRE ILM05.3 Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Analytical Results (Qualified Data)

Case # 35229 SDG : ME0028
Site : DUNAVAN OIL
Lab. : SENTIN
viewer : S. CONNET
Date : 06/05/06

Number of Soil Samples : 12
Number of Water Samples : 0

Sample Number :	ME0028		ME0029		ME0030		ME0031		ME0032	
Sampling Location	X115		S106		S107		S108		X116	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	4/12/2006		4/12/2006		4/12/2006		4/12/2006		4/13/2006	
Time Sampled :	16 55		17:20		17:40		18:00		08:30	
%Solids :	87 2		54 3		66.3		53.0		86.8	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	5030		11200		4150		6900		5270	
ANTIMONY	6.9	UJ	11.0	UJ	9.0	UJ	11.3	UJ	6.9	UJ
ARSENIC	4.1		5.4		11.3		10.1		6.0	
BARIUM	15.0	J	22.6	J	48.9		24.2	J	24.2	
BERYLLIUM	0.57	UJ	1.5		0.75	UJ	1.7		0.58	UJ
CADMIUM	0.081	J	0.89	J	0.36	J	0.76	J	0.11	J
CALCIUM	50900		7800		8590		8780		39400	
CHROMIUM	9.6		7.5		5.8		4.9		9.4	
COBALT	5.7	U	36.3		7.5	U	14.0		5.8	U
COPPER	11.0	J-	63.1		18.4	J-	13.6	J-	14.0	J-
IRON	13000		22300		16400		10100		13800	
LEAD	9.0	J-	17.8	J-	36.7		20.7	J-	10.3	J-
MAGNESIUM	28000		3520		2270		3660		20200	
MANGANESE	424	J	2230	J	531	J	971	J	355	J
MERCURY	0.11	U	0.074	J	0.25		0.19	U	0.042	J
NICKEL	15.3		37.1		9.3		40.9		15.4	
POTASSIUM	1160		381	J	674	J	406	J	1100	
SELENIUM	0.60	J+	1.9	J+	1.5	J+	1.1	J+	0.79	J+
SILVER	1.1	UJ	1.8	UJ	1.5	UJ	1.9	UJ	1.2	UJ
SODIUM	573	U	921	U	754	U	943	U	576	U
THALLIUM	2.9	UJ	4.6	UJ	0.53	J-	4.7	UJ	2 9	UJ
VANADIUM	8.5		9.2	U	8.8		9.4	U	10.1	
ZINC	40.1		90.8		81.3		145		41.0	
CYANIDE	2.9	U	4.6	U	3.8	U	4.7	U	2.9	U

Analytical Results (Qualified Data)

Case #. 35229 SDG · ME0028
Site : DUNAVAN OIL
Lab · SENTIN
eviewer : S. CONNET
Date · 06/05/06

Sample Number :	ME0033		ME0034		ME0036		ME0037		ME0038	
Sampling Location :	X117		X118		S103		S104		S105	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	4/6/2006		4/13/2006		4/13/2006		4/13/2006		4/13/2006	
Time Sampled :	08:45		09:00		10:05		11 00		11:00	
%Solids :	67.4		57.3		83.7		68.7		87.7	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	3980		7580		4460		20500		17900	
ANTIMONY	4.2	J	1.3	J	7.2	UJ	8.7	UJ	6.8	UJ
ARSENIC	6.2		31.9		3.6		4.1		3.1	
BARIUM	204		125		21.1	J	39.1		34.8	
BERYLLIUM	0.74	UJ	1.0		0.60	UJ	1.4		0.98	
CADMIUM	1.7		0.68	J	0.16	J	0.57	J	0.37	J
CALCIUM	10900		38700		3440		2670		2010	
CHROMIUM	962		12.2		6.1		22.4		17.7	
COBALT	17.3		8.7	U	6.0	U	36.9		20.3	
COPPER	217		34.7		10.3	J-	38.2		37.9	
IRON	16600		31600		10700		39000		32300	
LEAD	4890		83.0		11.8	J-	14.9	J-	12.7	
MAGNESIUM	2990		15500		2150		6110		4650	
MANGANESE	322	J	573	J	164	J	950	J	405	J
MERCURY	0.75		0.059	J	0.069	J	0.15	U	0 11	U
NICKEL	11.9		20.9		9.9		54.0		38.4	
POTASSIUM	653	J	1450		567	J	1300		941	
SELENIUM	1.5	J+	1.6	J+	0.84	J+	1.6	J+	1.2	J+
SILVER	1.5	UJ	1.7	UJ	1.2	UJ	1.5	UJ	1.1	UJ
SODIUM	742	U	873	U	597	U	728	U	570	U
THALLIUM	3.7	UJ	4.4	UJ	3.0	UJ	3.6	UJ	2 9	UJ
VANADIUM	8.4		21.4		7.8		21.9		16.9	
ZINC	7000		119		36.8		202		159	
CYANIDE	3.7	UJ	4.4	U	3.0	U	3.6	U	2.9	U

Analytical Results (Qualified Data)

Case #: 35229 SDG : ME0028
Site : DUNAVAN OIL
Lab. SENTIN
Reviewer : S. CONNET
Date : 06/05/06

Sample Number :	ME0039		ME0040							
Sampling Location :	S109		S110							
Matrix	Soil		Soil							
Units	mg/Kg		mg/Kg							
Date Sampled	4/13/2006		4/13/2006							
Time Sampled :	10 20		10:40							
%Solids .	73 6		63.0							
Dilution Factor :	1.0		1.0							
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	5980		1720							
ANTIMONY	8.2	UJ	9.5	UJ						
ARSENIC	5.0		22.9							
BARIUM	36.4		67.6							
BERYLLIUM	0.68	UJ	0.79	UJ						
CADMIUM	0.68	U	0.79	U						
CALCIUM	8050		2090							
CHROMIUM	11.3		3.9							
COBALT	8.1		7.9	U						
COPPER	10.4	J-	4.0	UJ						
IRON	21600		56700							
LEAD	10.4	J-	57.5							
MAGNESIUM	4890		794	U						
MANGANESE	1050	J	51.6	J						
MERCURY	0.14	U	0.073	J						
NICKEL	17.4		2.5	J						
POTASSIUM	752		2750							
SELENIUM	1.4	J+	2.8	J+						
SILVER	1.4	UJ	1.6	UJ						
SODIUM	679	U	2060							
THALLIUM	3.4	UJ	20.3	J-						
VANADIUM	13.9		13.4							
ZINC	50.6		17.8	J-						
CYANIDE	3.4	U	4.0	UJ						

QC EXCEPTION SUMMARY REPORT

CASE\SAS#: 35229
SITE: DONAVAN OIL
MATRIX: SOIL
WATER SAMPLE SPK: —

DATA SET: ME0028
LAB: SENTINEL
CONC: LOW
WATER SAMPLE DUP: —

LAB QC #
REVIEWED BY: S. CONNET
SOIL SAMPLE SPK: ME0028

DATE: 6-6-06
SOIL SAMPLE DUP:

FORM 2		FORM 2	FORM 2	FORM 3	FORM 3	FORM 3	FORM 4	FORM 5	FORM 6	FORM 7	FORM 7	FORM 9	FORM 9	FORM 4	FORM 5	FIELD	FIELD	FIELD	FIELD	COMMENTS
ELEMENT	HOLD TIME	INITIAL CALIB	CONTIN CALIB	CALIB BLANK	PREP WATER BLANK	mg/kg PREP SOIL BLANK	ICS %R	SOIL SPKB %R / POS	SOIL DUP RPD / Qual	ICS A AQ	ICS SOIL	SERIAL DILUTION AQUEOUS	SERIAL DILUTION SOIL	AQ DUP %R	AQ SPKB %R	BLANK	DUP RPD	BLANK	DUP RPD	
ALUMINUM																				
ANTIMONY								40/84												
ARSENIC																				
BARIUM																				
BERYLLIUM				0.1195						-0.242										
CADMIUM																				
CALCIUM																				
CHROMIUM																				
COBALT			-0.9102																	
COPPER				-3.424		1.003				-12.97										
IRON																				
LEAD										-11.06										
MAGNESIUM						5.719														
MANGANESE								190/95												
MERCURY																				
NICKEL																				
POTASSIUM																				
SELENIUM										4.553										
SILVER										-4.175										
SODIUM						60.77														
THALLIUM								71/51												
TIN																				
VANADIUM				0.7828																
ZINC										-15.3										
CYANIDE	ME0033			2.139																

CCB: Co 28, 30, 32, 34, 36
ICB/PB: Be 28, 30, 32, 33, 36, 39, 40
Ca 40 Mg 40
Na 28, 29, 30, 31, 32, 33, 34, 36, 37, 38, 39
V 29, 31
CN 28, 29, 30, 31, 32, 33, 34, 36, 38, 39, 40

EPA ISEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 35229
DAS No:
SDG No: ME0028

L

Date Shipped:	4/13/2006
Carrier Name:	UPS
Airbill:	1Z6215892210024197
Shipped to:	Sentinel Inc. 116 Washington Street, NE Huntsville AL 35801 (256) 534-9800

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
Tony Wade	4/13/06 1200	Matt Webb	
2		04/14/06	
3		0934	
4			

Sampler Signature: Lance Range

For Lab Use Only

Lab Contract No: 68W04007
Unit Price: 110.00
Transfer To:
Lab Contract No:
Unit Price:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME0028	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263453 (1)	X115	S: 4/12/2006 16:55	E0028	
ME0029	Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263457 (1)	S106	S 4/12/2006 17.20	E0029	
ME0030	Sediment/ Paul Mason	L/G	CN (21), TM/Hg (21)	263461 (1)	S107	S. 4/12/2006 17:40	E0030	
ME0031	Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263465 (1)	S108	S: 4/12/2006 18:00	E0031	
ME0032	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263469 (1)	X116	S: 4/13/2006 8:30	E0032	
ME0033	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263473 (1)	X117	S 4/6/2006 8 45	E0033	
ME0034	Soil/Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263477 (1)	X118	S 4/13/2006 9 00	E0034	
ME0035	Potable Well/ Lance Range	L/G	CN (21), TM/Hg (21)	263488 (HNO3), 263489 (NaOH) (2)	G106	S. 4/13/2006 10 00	E0035	
ME0036	Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263492 (1)	S103	S 4/13/2006 10 05	E0036	
ME0037	Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263496 (1)	S104	S: 4/13/2006 11 00	E0037	

Copy ME0010 Original Documents Are Included In CSF

Signature

04/18/06 Date

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	ME0016, ME0024, ME0038		3.0, 1.0°C	82821 · 82822

Analysis Key: Concentration: L = Low, M = Low/Medium, H = High Type/Designate: Composite = C, Grab = G

Custody Seal Intact? Y Shipment Iced? Y

CN = Cyanide, TM/Hg = CLP TAL Total Metals/Hg

TR Number: 5-314975591-041306-0003

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819, Phone 703/818-4200, Fax

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No:	35229
DAS No:	
SDG No:	ME0028

L

Date Shipped:	4/13/2006
Carrier Name:	UPS
Airbill:	1Z6215892210024197
Shipped to:	Sentinel Inc. 116 Washington Street, NE Huntsville AL 35801 (256) 534-9800

Chain of Custody Record

Sampler Signature: Lance Range

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	4/13/06 1200	Matt Wadt	
2		04/14/06	
3		0934	
4			

For Lab Use Only

Lab Contract No:	1080004007
Unit Price:	110.00
Transfer To:	
Lab Contract No:	
Unit Price:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME0038	Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263500 (1)	S105	S: 4/13/2006 11:00	E0038	
ME0039	Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263604 (1)	S109	S: 4/13/2006 10:20	E0039	
ME0040	Sediment/ Lance Range	L/G	CN (21), TM/Hg (21)	263608 (1)	S110	S: 4/13/2006 10:40	E0040	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: ME0016, ME0024, ME0038	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 30, 1.0°C	Chain of Custody Seal Number: 82821 - 82822
Analysis Key: CN = Cyanide, TM/Hg = CLP TAL Total Metals/Hg	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

TR Number: 5-314975591-041306-0003

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4607

U.S. EPA - CLP

SDG NARRATIVE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Sentinel, Inc. SOW No.: ILM05.3 Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

SAMPLE RECEIPT: Temperature Blank: PRESENT ✓ ABSENT____
If a blank is absent, a non-invasive laser measurement is taken using a sample.
Cooler temperature(s) recorded via laser measurement were: 1.0°C, 3.0°C
Refer to Record of Communication (ROC) regarding EPA Sample # discrepancies for samples:

Refer to ROC regarding tag discrepancies for samples:

Refer to ROC regarding sample preservation discrepancies for samples:

Refer to ROC regarding: MW 04/19/06 ~~refer to~~ sample tag numbers

QC Specified: Yes ✓ No____ If no, chose:

ANALYSIS: The following analyte(s) were estimated due to possible matrix interferences:

DOCUMENT CONTROL: The following invalid defects resulted due to CCS program anomalies:
Initial Assessment:
Full Assessment:

OTHER:

Signature:

Name & Title: Bailque CMS Tech Date: 5/2/06

SDG NARRATIVE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Sentinel, Inc. SOW No.: ILM05.3 Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

EQUATIONS:

HW1 Method: Concentration (µg/L) = C x (V_f/V_i) x DF

WHERE, C = Instrument value in µg/L
V_f = Final digestion volume (mL)
V_i = Initial digestion volume (mL)
DF = Dilution Factor

HS1 Method: Concentration (dry wt.) (mg/kg) = ((C x V)/(W x S)) X DF

WHERE, C = Concentration (mg/L)
V = Final sample volume in Liters (L)
W = Wet sample weight (kg)
S = % Solids/100
DF = Dilution Factor

CW1 Method: Concentration (µg/L) = C x (V_f/V_i) x DF

WHERE, C = Instrument value in µg/L (The average of all replicate integrations).
V_f = Final digestion volume (mL)
V_i = Initial digestion volume (mL)
DF = Dilution Factor

CS1 Method: Concentration (mg/kg) = (A x D x F)/ (B x E)

WHERE, A = Concentration in µg/L
B = Weight in g
D = Dilution Factor
E = % Solids/100
F = Final Volume (0.100 L)

Signature: [signature]

Name & Title: BALLIGWE CLNR Date: 5/2/06

SDG NARRATIVE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Sentinel, Inc. SOW No.: ILM05.3 Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: MEQQ28

EQUATIONS:

DW2 Method: CN Concentration (µg/L) = (A x D x F)/ B

WHERE,
A = µg/L CN of sample from regression analysis
B = volume of original sample for distillation (0.050 L)
D = any dilution factor necessary to bracket sample values within standard values
F = sample receiving solution volume (0.050 L)

DS2 Method: CN Concentration (mg/kg) = (A x D x F)/ (B x E)

WHERE,
A = µg/L CN of sample from regression analysis
B = wet weight of original sample (g)
D = any dilution factor necessary to bracket sample values within standard values
E = % solids/100
F = sample receiving solution volume (0.050 L)

Signature: [illegible]

Name & Title: B Miguel [illegible] Date: 5/2/06

4

USEPA - CLP

MAY 0 4 2006

COVER PAGE

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

SOW No.: ILM05.3

EPA SAMPLE NO.	Lab Sample ID.
ME0028	19716
ME0029	19717
ME0030	19718
ME0031	19719
ME0032	19720
ME0033	19721
ME0034	19722
ME0036	19723
ME0037	19724
ME0038	19725
ME0038D	19725S2
ME0038S	19725MS
ME0039	19726
ME0040	19727

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name: Bill Igoe

Date: 4/24/06 Title: Owner

USEPA - CLP

3-IN
BLANKS

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	200.000	U	200.000	U	200.000	U	200.000	U	6.175	J	P
Antimony	60.000	U	60.000	U	60.000	U	60.000	U	6.000	U	P
Arsenic	10.000	U	10.000	U	10.000	U	10.000	U	1.000	U	P
Barium	200.000	U	200.000	U	200.000	U	200.000	U	20.000	U	P
Beryllium	0.120	J	5.000	U	5.000	U	5.000	U	0.500	U	P
Cadmium	5.000	U	5.000	U	5.000	U	5.000	U	0.500	U	P
Calcium	5000.000	U	5000.000	U	5000.000	U	53.664	J	26.532	J	P
Chromium	-0.445	J	-1.227	J	-1.348	J	-0.537	J	1.000	U	P
Cobalt	50.000	U	50.000	U	-0.910	J	50.000	U	5.000	U	P
Copper	-3.424	J	-5.100	J	-5.052	J	-4.160	J	1.003	J	P
Iron	100.000	U	100.000	U	100.000	U	100.000	U	7.851	J	P
Lead	10.000	U	10.000	U	10.000	U	10.000	U	1.000	U	P
Magnesium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	5.719	J	P
Manganese	-0.527	J	-0.939	J	-0.453	J	-0.713	J	1.500	U	P
Mercury	0.200	U	0.200	U	0.200	U	0.200	U	0.100	U	CV
Nickel	40.000	U	40.000	U	-1.882	J	40.000	U	4.000	U	P
Potassium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	500.000	U	P
Selenium	35.000	U	35.000	U	35.000	U	35.000	U	3.500	U	P
Silver	10.000	U	10.000	U	10.000	U	1.358	J	1.000	U	P
Sodium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	60.774	J	P
Thallium	25.000	U	25.000	U	25.000	U	25.000	U	2.500	U	P
Vanadium	0.782	J	50.000	U	50.000	U	50.000	U	5.000	U	P
Zinc	6.179	J	5.942	J	8.625	J	11.391	J	6.000	U	P
Cyanide	2.140	J	10.000	U	10.000	U			2.500	U	AS

USEPA - CLP

3-IN
BLANKS

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			200.000	U							P
Antimony			60.000	U							P
Arsenic			10.000	U							P
Barium			200.000	U							P
Beryllium			5.000	U							P
Cadmium			5.000	U							P
Calcium			54.384	J							P
Chromium			-1.132	J							P
Cobalt			50.000	U							P
Copper			-5.064	J							P
Iron			100.000	U							P
Lead			10.000	U							P
Magnesium			5000.000	U							P
Manganese			-0.774	J							P
Mercury											NR
Nickel			40.000	U							P
Potassium			5000.000	U							P
Selenium			35.000	U							P
Silver			10.000	U							P
Sodium			5000.000	U							P
Thallium			25.000	U							P
Vanadium			50.000	U							P
Zinc			11.205	J							P
Cyanide	2.390	J	1.100	J	1.400	J	10.000	U	0.053	J	AS

USEPA - CLP

3-IN
BLANKS

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese	15.000	U	15.000	U	1.123	J					P
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

ICP-AES Instrument ID: P4 ICS Source: EPA ICSA0503

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	%R	Initial Found Sol. AB	%R	Final Found Sol. A	%R	Final Found Sol. AB	%R
Aluminum	244000	248000	272000	111	286000	115	270000	111	286000	115
Antimony	0	585	4.5		593	101	-1.9		596	102
Arsenic	0	97.0	-2.3		94.0	97	-2.7		94.7	98
Barium	2.0	475	3.1	155	493	104	2.6	130	494	104
Beryllium	0	482	-0.18		467	97	-0.24		468	97
Cadmium	0	916	-0.078		943	103	-0.087		954	104
Calcium	234000	234000	229000	98	239000	102	224000	96	238000	102
Chromium	36.0	506	35.3	98	496	98	34.7	96	497	98
Cobalt	3.0	455	2.7	90	463	102	1.8	60	464	102
Copper	15.0	537	3.6	24	489	91	2.6	17	489	91
Iron	94900	95100	90900	96	95300	100	89800	95	95200	100
Lead	5.0	51.0	-6.1	-122	40.4	79	-4.6	-92	43.1	85
Magnesium	249000	254000	248000	100	260000	102	245000	98	260000	102
Manganese	19.0	483	14.1	74	499	103	14.4	76	500	104
Nickel	10.0	930	12.0	120	953	102	11.7	117	953	102
Potassium	0	0	36.4		17.2		9.1		0.77	
Selenium	0	51.0	4.6		52.6	103	3.4		50.8	100
Silver	0	210	-2.5		197	94	-4.2		197	94
Sodium	0	0	678		483		452		391	
Thallium	0	96.0	-4.7		84.1	88	-5.6		82.9	86
Vanadium	1.0	481	1.6	160	475	99	0.64	64	475	99
Zinc	39.0	975	23.7	61	929	95	29.5	76	938	96

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

ICP-AES Instrument ID: P4 ICS Source: EPA ICSA0503

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	%R	Initial Found Sol. AB	%R	Final Found Sol. A	%R	Final Found Sol. AB	%R
Aluminum	244000	248000					269000	110	284000	115
Antimony	0	585					1.7		591	101
Arsenic	0	97.0					-0.45		88.7	91
Barium	2.0	475					2.7	135	489	103
Beryllium	0	482					-0.19		464	96
Cadmium	0	916					-0.21		952	104
Calcium	234000	234000					224000	96	236000	101
Chromium	36.0	506					34.5	96	493	97
Cobalt	3.0	455					2.3	77	462	102
Copper	15.0	537					2.0	13	485	90
Iron	94900	95100					89400	94	94400	99
Lead	5.0	51.0					-5.6	-112	41.4	81
Magnesium	249000	254000					244000	98	258000	102
Manganese	19.0	483					14.5	76	498	103
Nickel	10.0	930					11.4	114	948	102
Potassium	0	0					16.8		0.79	
Selenium	0	51.0					4.3		49.7	97
Silver	0	210					-3.2		195	93
Sodium	0	0					441		444	
Thallium	0	96.0					-5.2		80.3	84
Vanadium	1.0	481					1.0	100	472	98
Zinc	39.0	975					30.2	77	931	95

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

ICP-AES Instrument ID: P3 ICS Source: EPA ICSA0503

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	%R	Initial Found Sol. AB	%R	Final Found Sol. A	%R	Final Found Sol. AB	%R
Aluminum	244000	248000	262000	107	252000	102	253000	104	242000	98
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium	234000	234000	247000	106	235000	100	238000	102	226000	97
Chromium										
Cobalt	3.0	455	3.4	113	467	103	3.8	127	464	102
Copper										
Iron	94900	95100	102000	107	97100	102	98100	103	93000	98
Lead										
Magnesium	249000	254000	273000	110	258000	102	261000	105	247000	97
Manganese	19.0	483	21.1	111	510	106	21.6	114	488	101
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Thallium										
Vanadium	1.0	481	-0.47	-47	475	99	-0.47	-47	465	97
Zinc										

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

ICP-AES Instrument ID: P3 ICS Source: EPA ICSA0503

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	%R	Initial Found Sol. AB	%R	Final Found Sol. A	%R	Final Found Sol. AB	%R
Aluminum	244000	248000	257000	105	245000	99	250000	102	243000	98
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium	234000	234000	244000	104	230000	98	236000	101	227000	97
Chromium										
Cobalt	3.0	455					3.9	130	462	102
Copper										
Iron	94900	95100	101000	106	95100	100	97200	102	93400	98
Lead										
Magnesium	249000	254000	269000	108	253000	100	259000	104	248000	98
Manganese										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Thallium										
Vanadium	1.0	481					-0.50	-50	461	96
Zinc										

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

ICP-AES Instrument ID: P3 ICS Source: EPA ICSA0503

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	%R	Initial Found Sol. AB	%R	Final Found Sol. A	%R	Final Found Sol. AB	%R
Aluminum	244000	248000					251000	103	242000	98
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium	234000	234000					237000	101	226000	97
Chromium										
Cobalt										
Copper										
Iron	94900	95100					97200	102	92600	97
Lead										
Magnesium	249000	254000					259000	104	246000	97
Manganese										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Thallium										
Vanadium										
Zinc										

USEPA - CLP

5A-IN
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME0038S

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: MEC028

Matrix: (soil/water) SOIL Level: (low/med) LOW

% Solids for Sample: 87.7

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	9.1738		6.8415	U	22.81	40	N	P
Arsenic	75-125	10.7363		3.1286		9.12	83		P
Barium	75-125	453.2859		34.8142		456.10	92		P
Beryllium	75-125	10.7247		0.9763		11.40	86		P
Cadmium	75-125	10.6671		0.3671	J	11.40	90		P
Calcium									NR
Chromium	75-125	56.2426		17.6607		45.61	85		P
Cobalt	75-125	119.7807		20.3269		114.03	87		P
Copper	75-125	86.8145		37.8879		57.01	86		P
Iron									NR
Lead	75-125	16.5611		12.6857		4.56	85		P
Magnesium									NR
Manganese	75-125	598.5344		404.7892		114.03	170	N	P
Mercury	75-125	0.6385		0.1140	U	0.57	112		CV
Nickel	75-125	135.3571		38.4302		114.03	85		P
Potassium									NR
Selenium	75-125	9.9903		1.1745	J	11.40	77		P
Silver	75-125	8.8487		1.1403	U	11.40	78		P
Sodium									NR
Thallium	75-125	8.1233		2.8506	U	11.40	71	N	P
Vanadium	75-125	113.3782		16.9372		114.03	85		P
Zinc	75-125	255.9738		159.0636		114.03	85		P
Cyanide	75-125	4.3483		0.0918	J	5.70	75		AS

Comments:

USEPA - CLP

5B-IN
POST-DIGESTION SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME0038A

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

Matrix: (soil/water) SOIL Level: (low/med) LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		107.08		60.00	U	120.0	89		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese		10260.42		3550.00		7100.0	95		P
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium		25.26		25.00	U	50.0	51		P
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

USEPA - CLP

6-IN
DUPLICATES

EPA SAMPLE NO.

ME0038D

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

Matrix: (soil/water) SOIL Level: (low/med) LOW

% Solids for Sample: 87.7 % Solids for Duplicate: 86.7

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		17894.3505		16897.5503		6		P
Antimony		6.8415	U	6.8415	U			P
Arsenic	1.1	3.1286		3.1142		0		P
Barium	22.8	34.8142		44.1310		24		P
Beryllium	0.6	0.9763		0.9732		0		P
Cadmium		0.3671	J	0.3745	J	2		P
Calcium	570.1	2005.0922		2118.4820		5		P
Chromium		17.6607		16.4686		7		P
Cobalt	5.7	20.3269		21.3366		5		P
Copper		37.8879		35.7163		6		P
Iron		32277.1380		29673.9515		8		P
Lead		12.6857		11.3860		11		P
Magnesium		4649.3515		4240.0945		9		P
Manganese		404.7892		486.9942		18		P
Mercury		0.1140	U	0.1140	U			CV
Nickel		38.4302		36.7738		4		P
Potassium	570.1	940.8117		945.8245		1		P
Selenium		1.1745	J	1.1375	J	3		P
Silver		1.1403	U	1.1403	U			P
Sodium		175.1339	J	159.4344	J	9		P
Thallium		2.8506	U	2.8506	U			P
Vanadium	5.7	16.9372		15.9046		6		P
Zinc		159.0636		151.7991		5		P
Cyanide		0.0918	J	0.0827	J	10		AS

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

Instrument Type: P Instrument ID: P4 Date: 01/15/2006

Preparation Method: NP1

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		200	
Antimony	206.80	60	3.7
Arsenic	189.00	10	3.7
Barium	493.40	200	0.72
Beryllium	313.00	5	0.059
Cadmium		5	
Calcium	317.90	5000	39.5
Chromium	267.70	10	0.41
Cobalt	228.60	50	0.68
Copper	324.70	25	1.4
Iron	271.40	100	20.7
Lead	220.30	10	1.7
Magnesium	279.00	5000	20.5
Manganese	257.60	15	0.20
Mercury		0.2	
Nickel	231.60	40	1.4
Potassium	766.40	5000	72.8
Selenium	196.00	35	3.1
Silver	328.00	10	0.96
Sodium	330.20	5000	325
Thallium	190.80	25	6.9
Vanadium	292.40	50	0.68
Zinc	206.20	60	2.6
Cyanide		10	

Comments:
P4: THERMO JARRELL ASH

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

Instrument Type: P Instrument ID: P4 Date: 01/15/2006

Preparation Method: HS1

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		20	
Antimony	206.80	6	0.50
Arsenic	189.00	1	0.24
Barium	493.40	20	0.35
Beryllium	313.00	0.5	0.0050
Cadmium		0.5	
Calcium	317.90	500	20.0
Chromium	267.70	1	0.090
Cobalt	228.60	5	0.14
Copper	324.70	2.5	0.63
Iron	271.40	10	4.7
Lead	220.30	1	0.19
Magnesium	279.00	500	3.5
Manganese	257.60	1.5	0.46
Mercury		0.1	
Nickel	231.60	4	0.21
Potassium	766.40	500	11.3
Selenium	196.00	3.5	0.29
Silver	328.00	1	0.14
Sodium	330.20	500	30.6
Thallium	190.80	2.5	0.35
Vanadium	292.40	5	0.11
Zinc	206.20	6	2.5
Cyanide		2.5	

Comments:
P4: THERMO JARRELL ASH

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

Instrument Type: P Instrument ID: P3 Date: 01/15/2006

Preparation Method: NP1

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	308.20	200	74.5
Antimony		60	
Arsenic		10	
Barium		200	
Beryllium		5	
Cadmium	226.50	5	0.65
Calcium		5000	
Chromium		10	
Cobalt		50	
Copper		25	
Iron		100	
Lead		10	
Magnesium		5000	
Manganese	257.60	15	0.41
Mercury		0.2	
Nickel		40	
Potassium		5000	
Selenium		35	
Silver		10	
Sodium		5000	
Thallium		25	
Vanadium		50	
Zinc		60	
Cyanide		10	

Comments:
P3: THERMO JARRELL ASH

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

Instrument Type: P Instrument ID: P3 Date: 01/15/2006

Preparation Method: HS1

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	308.20	20	4.9
Antimony		6	
Arsenic		1	
Barium		20	
Beryllium		0.5	
Cadmium	226.50	0.5	0.058
Calcium		500	
Chromium		1	
Cobalt		5	
Copper		2.5	
Iron		10	
Lead		1	
Magnesium		500	
Manganese	257.60	1.5	0.44
Mercury		0.1	
Nickel		4	
Potassium		500	
Selenium		3.5	
Silver		1	
Sodium		500	
Thallium		2.5	
Vanadium		5	
Zinc		6	
Cyanide		2.5	

Comments:
P3: THERMO JARRELL ASH

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

Instrument Type: CV Instrument ID: C5 Date: 01/15/2006

Preparation Method: CS1

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		20	
Antimony		6	
Arsenic		1	
Barium		20	
Beryllium		0.5	
Cadmium		0.5	
Calcium		500	
Chromium		1	
Cobalt		5	
Copper		2.5	
Iron		10	
Lead		1	
Magnesium		500	
Manganese		1.5	
Mercury	253.70	0.1	0.025
Nickel		4	
Potassium		500	
Selenium		3.5	
Silver		1	
Sodium		500	
Thallium		2.5	
Vanadium		5	
Zinc		6	
Cyanide		2.5	

Comments:
C5: CETAC M6000

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

Instrument Type: AS Instrument ID: C1 Date: 01/15/2006

Preparation Method: NP1

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		200	
Antimony		60	
Arsenic		10	
Barium		200	
Beryllium		5	
Cadmium		5	
Calcium		5000	
Chromium		10	
Cobalt		50	
Copper		25	
Iron		100	
Lead		10	
Magnesium		5000	
Manganese		15	
Mercury		0.2	
Nickel		40	
Potassium		5000	
Selenium		35	
Silver		10	
Sodium		5000	
Thallium		25	
Vanadium		50	
Zinc		60	
Cyanide	580.00	10	0.39

Comments:
C1: LACHAT

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

Instrument Type: AS Instrument ID: C1 Date: 01/15/2006

Preparation Method: DS2

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		20	
Antimony		6	
Arsenic		1	
Barium		20	
Beryllium		0.5	
Cadmium		0.5	
Calcium		500	
Chromium		1	
Cobalt		5	
Copper		2.5	
Iron		10	
Lead		1	
Magnesium		500	
Manganese		1.5	
Mercury		0.1	
Nickel		4	
Potassium		500	
Selenium		3.5	
Silver		1	
Sodium		500	
Thallium		2.5	
Vanadium		5	
Zinc		6	
Cyanide	580.00	2.5	0.025

Comments:
C1: LACHAT

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

Preparation Method: HS1

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	04/26/2006	1.00	100
ME0028	04/26/2006	1.00	100
ME0029	04/26/2006	1.00	100
ME0030	04/26/2006	1.00	100
ME0031	04/26/2006	1.00	100
ME0032	04/26/2006	1.00	100
ME0033	04/26/2006	1.00	100
ME0034	04/26/2006	1.00	100
ME0036	04/26/2006	1.00	100
ME0037	04/26/2006	1.00	100
ME0038	04/26/2006	1.00	100
ME0038D	04/26/2006	1.00	100
ME0038S	04/26/2006	1.00	100
ME0039	04/26/2006	1.00	100
ME0040	04/26/2006	1.00	100
PBS	04/26/2006	1.00	100

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

Preparation Method: CS1

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CCB	04/21/2006		100
CCV	04/21/2006		100
CRI	04/21/2006		100
ICB	04/21/2006		100
ICV	04/21/2006		100
LCSS	04/21/2006	0.20	100
ME0028	04/21/2006	0.20	100
ME0029	04/21/2006	0.20	100
ME0030	04/21/2006	0.20	100
ME0031	04/21/2006	0.20	100
ME0032	04/21/2006	0.20	100
ME0033	04/21/2006	0.20	100
ME0034	04/21/2006	0.20	100
ME0036	04/21/2006	0.20	100
ME0037	04/21/2006	0.20	100
ME0038	04/21/2006	0.20	100
ME0038D	04/21/2006	0.20	100
ME0038S	04/21/2006	0.20	100
ME0039	04/21/2006	0.20	100
ME0040	04/21/2006	0.20	100
PBS	04/21/2006	0.20	100
S0	04/21/2006		100
S0.2	04/21/2006		100
S1.0	04/21/2006		100
S10.0	04/21/2006		100
S2.0	04/21/2006		100
S5.0	04/21/2006		100

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

Preparation Method: DS2

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
ICV	04/21/2006		50
LCSS	04/21/2006	1.00	50
ME0028	04/21/2006	1.00	50
ME0038	04/21/2006	1.00	50
ME0038D	04/21/2006	1.00	50
ME0038S	04/21/2006	1.00	50
MIDRANGE	04/21/2006		50
PBS	04/21/2006	1.00	50

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

Preparation Method: DS2

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
ICV	04/22/2006		50
LCSS	04/22/2006	1.00	50
ME0029	04/22/2006	1.00	50
ME0030	04/22/2006	1.00	50
ME0031	04/22/2006	1.00	50
ME0032	04/22/2006	1.00	50
ME0033	04/22/2006	1.00	50
ME0034	04/22/2006	1.00	50
ME0036	04/22/2006	1.00	50
ME0037	04/22/2006	1.00	50
ME0039	04/22/2006	1.00	50
ME0040	04/22/2006	1.00	50
MIDRANGE	04/22/2006		50
PBS	04/22/2006	1.00	50

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

Instrument ID: P4 Analysis Method: P

Start date: 04/27/2006 End date: 04/27/2006

EPA Sample No.	D/F	Time	Analytes																							
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.0	1635	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
S	1.0	1641	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ICV	1.0	1646	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ICB	1.0	1651	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CRI	1.0	1657	_	X	X	_	X	_	_	X	X	X	_	X	_	X	_	X	_	X	X	_	X	X	X	_
ICSA	1.0	1702	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ICSAB	1.0	1708	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CCV	1.0	1713	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CCB	1.0	1718	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
PBS	1.0	1724	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
LCSS	1.0	1729	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0038L	5.0	1734	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0038	1.0	1740	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0038D	1.0	1745	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0038S	1.0	1751	_	X	X	X	X	_	_	X	X	X	_	X	_	X	_	X	_	X	X	_	X	X	X	_
ME0038A	1.0	1756	_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_
ME0028	1.0	1801	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0029	1.0	1807	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ZZZZZZ	1.0	1812	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
CCV	1.0	1818	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CCB	1.0	1823	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0030	1.0	1828	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0031	1.0	1834	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0032	1.0	1839	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0033	1.0	1844	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0034	1.0	1850	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0036	1.0	1855	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ZZZZZZ	1.0	1901	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
CRI	1.0	1906	_	X	X	_	X	_	_	X	X	X	_	X	_	X	_	X	_	X	X	_	X	X	X	_
ICSA	1.0	1911	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ICSAB	1.0	1917	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CCV	1.0	1922	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CCB	1.0	1928	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

Instrument ID: P4 Analysis Method: P

Start date: 04/27/2006 End date: 04/27/2006

EPA Sample No.	D/F	Time	Analytes																							
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ME0037	1.0	1933	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0039	1.0	1938	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ME0040	1.0	1944	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ZZZZZZ	1.0	1949	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
CRI	1.0	1955	_	X	X	_	X	_	_	X	X	X	_	X	_	X	_	X	_	X	X	_	X	X	X	_
ICSA	1.0	2000	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ICSAB	1.0	2005	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CCV	1.0	2011	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
CCB	1.0	2016	_	X	X	X	X	_	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_

62

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

Instrument ID: P3 Analysis Method: P

Start date: 04/28/2006 End date: 04/28/2006

EPA Sample No.	D/F	Time	Analytes																							
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.0	1048	X						X				X		X	X										
S	1.0	1054	X						X				X		X	X										
ICV	1.0	1100														X										
ICB	1.0	1105														X										
CRI	1.0	1111														X										
ICSA	1.0	1119	X						X				X		X	X										
ICSAB	1.0	1124	X						X				X		X	X										
CCV	1.0	1130														X										
CCB	1.0	1136														X										
ZZZZZZ	4.0	1141																								
ZZZZZZ	1.0	1147																								
ZZZZZZ	2.0	1152																								
ME0038A	1.0	1158														X										
ZZZZZZ	1.0	1204																								
ZZZZZZ	1.0	1209																								
CRI	1.0	1218														X										
ICSA	1.0	1224	X						X				X		X	X										
ICSAB	1.0	1229	X						X				X		X	X										
CCV	1.0	1235														X										
CCB	1.0	1240														X										

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

Instrument ID: P3 Analysis Method: P

Start date: 04/28/2006 End date: 04/28/2006

EPA Sample No.	D/F	Time	Analytes																							
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.0	1248	X					X	X		X		X		X									X		
S	1.0	1253	X					X	X		X		X		X									X		
ICV	1.0	1258	X					X																		
ICB	1.0	1303	X					X																		
CRI	1.0	1308						X																		
ICSA	1.0	1313	X					X	X		X		X		X									X		
ICSAB	1.0	1319	X					X	X		X		X		X									X		
CCV	1.0	1324	X					X																		
CCB	1.0	1329	X					X																		
PBS	1.0	1334	X					X																		
LCSS	1.0	1339	X					X																		
ME0038L	5.0	1344	X					X																		
ME0038	1.0	1350	X					X																		
ME0038D	1.0	1355	X					X																		
ME0038S	1.0	1400						X																		
ME0038A	1.0	1405																								
ME0028	1.0	1410	X					X																		
ME0029	1.0	1415	X					X																		
ZZZZZZ	1.0	1420																								
CCV	1.0	1426	X					X																		
CCB	1.0	1431	X					X																		
ME0030	1.0	1436	X					X																		
ME0031	1.0	1441	X					X																		
ME0032	1.0	1446	X					X																		
ME0033	1.0	1451	X					X																		
ME0034	1.0	1457	X					X																		
ME0036	1.0	1502	X					X																		
ZZZZZZ	1.0	1507																								
CRI	1.0	1512						X																		
ICSA	1.0	1517	X					X	X		X		X		X									X		
ICSAB	1.0	1522	X					X	X		X		X		X									X		
CCV	1.0	1527	X					X																		
CCB	1.0	1533	X					X																		

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: Sentinel, Inc. Contract: 68-W-04-007

Lab Code: SENTIN Case No.: 35229 NRAS No.: SDG No.: ME0028

Instrument ID: P3 Analysis Method: P

Start date: 04/28/2006 End date: 04/28/2006

EPA Sample No.	D/F	Time	Analytes																							
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ME0037	1.0	1538	X					X																		
ME0039	1.0	1543	X					X																		
ME0040	1.0	1548	X					X																		
ZZZZZZ	1.0	1553																								
CRI	1.0	1558						X																		
ICSA	1.0	1604	X					X	X		X		X		X									X		
ICSAB	1.0	1609	X					X	X		X		X		X									X		
CCV	1.0	1614	X					X																		
CCB	1.0	1619	X					X																		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: ME0028 CERCLIS No: ILD980794929 DJ 5/5/06

Case No: 35229 Site Name/Location: DUNAVAN OIL (IL)

Contractor or EPA Lab: SENTINEL Data User: IEPA

No. of Samples: 12 Date Sampled or Date Received: 5/4/06

Have Chain-of-Custody records been received? Yes X No ____
Have traffic reports or packing lists been received? Yes X No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes X No ____
No of samples claimed: ____ No. of samples received: ____

Received by: Dawn Johnson Date: 5/5/06

Received by LSSS: Dawn Johnson Date: 5/5/06

Review started: 6-2-06 Reviewer Signature: [signature]

Total time spent on review: 16 Date review completed: 6-6-06

Copied by: Dawn Johnson Date: 6/9/06

Mailed to user by: Dawn Johnson Date: 6/9/06

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: ____

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: June 14, 2006

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE Name: Dunavan Oil (IL)

Case Number: 35229 SDG Number: E0033

Number and Type of Samples: 8 (soil) (Pesticide and Aroclors)

Sample Numbers: E0032 through E0034 and E0036 through E0040

Laboratory: Envirosystems Inc. Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0033
Laboratory: Envirosystems

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Eight (8) soil samples, numbered E0032 through E0034 and E0036 through E0040 were collected on April 6 and 13, 2006. The lab received the samples on April 14, 2006 in good condition. The samples were analyzed for Pesticide and Aroclor lists of organic analytes. All samples were analyzed according to CLP SOW SOM01.1 (5/2005). The samples were validated according to USEPA CLP National Functional Guidelines for Superfund Organic Methods Data Review (1/2005).

The Chain of Custody for the Pesticide and Aroclor fractions was not in this package. The laboratory inserted the Volatile and Semivolatile Chain of Custody. This reviewer is using the date of collections of the Volatile and Semivolatile fractions as the date for the Pesticide and Aroclors since the sample numbers are the same.

Even though samples E0037 and E0038 had the same collection date and time, this reviewer did not regard them as duplicates.

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0033
Laboratory: Envirosystems

1. HOLDING TIME

No defects were found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

The following Pesticide samples have a GPC performance check below the QC limits (80-110%) and above 10%. Hits are qualified "J" and non-detects are qualified "UJ".

Gamma-BHC (Lindane), Heptachlor, Aldrin
E0032, E0033, E0034, E0036, E0037, E0038, E0038MS, E0038MSD, E0039, E0040, PBLK16, PLCS16

3. CALIBRATION

The following Pesticide samples are associated with a continuing calibration whose corresponding initial calibration has relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Methoxychlor
E0032, E0033, E0033RE, E0033DL, E0034, E0036, E0037, E0038, E0038MS, E0038MSD, E0039, E0040, PBLK16, PLCS16

The following Pesticide samples are associated with a continuing calibration whose corresponding initial calibration PEM has percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Alpha-BHC, beta-BHC, gamma-BHC (Lindane), Methoxychlor
E0032, E0033, E0033RE, E0033DL, E0034, E0036, E0037, E0038, E0038MS, E0038MSD, E0039, E0040, PBLK16, PLCS16

The following Pesticide samples are associated with the opening and closing PEM continuing calibration percent difference (%D) outside primary criteria (25.0%). Hits are qualified "J" and non-detects are qualified "UJ".

Methoxychlor
E0032, E0033, E0033RE, E0033DL, E0034, E0036, E0037, E0038, E0038MS, E0038MSD, E0039, E0040, PBLK16, PLCS16

The following pesticide samples have an INDA/INDB that exceeded the QC criteria for the opening CCV. Hit are qualified "J" and non-detects are qualified "UJ"

Methoxychlor
E0032, E0033, E0033RE, E0033DL, E0034, E0036, E0037, E0038, E0038MS,

E0038MSD, E0039, E0040, PBLK16, PLCS16

4,4'-DDD, Endrin ketone
E0033DL

The following Pesticide samples are associated with a continuing calibration whose corresponding initial calibration PEM has percent difference (%D) outside primary criteria (≤20%). No action is taken.

Tetrachloro-m-xylene (TCX), Decachlorobiphenyl (DCB)
E0032, E0033, E0034, E0036, E0037, E0038, E0038MS, E0038MSD, E0039, E0040, PBLK16, PLCS16

The following Pesticide samples are associated with a continuing calibration whose corresponding initial calibration INDA/INDB has percent difference (%D) outside primary criteria (≤20%).

Decachlorobiphenyl (DCB)
E0032, E0033, E0034, E0036, E0037, E0038, E0038MS, E0038MSD, E0039, E0040, PBLK16, PLCS16

The following Aroclors samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ"

Aroclor 1016, Aroclor 1260
E0032, E0033, E0033DL, E0033RE, E0034, E0036, E0037, E0038, E0038MS, E0038MSD, E0039, E0040, ABKL17, ABLK18, ALCS17, ALCS18

Aroclor 1268
E0033DL, E0033RE

The following Aroclor samples are associated with closing continuing calibration with a percent difference (%D) outside primary criteria (≤20%). Hits are qualified "J" and non-detects are flagged "UJ"

Aroclor 1016, Aroclor 1260, Aroclor 1268
E0033DL, E0033RE

The following Aroclor samples are associated with opening continuing calibration with a percent difference (%D) outside primary criteria for surrogate DCB (≤ 5%). No action is taken.

Decachlorobiphenyl
E0032, E0033, E0034, E0036. E0037, E0038MS. E0038MSD, ABLK17, ABLK18, ALCS17, AQLCS18

The following Aroclor samples are associated with closing continuing calibration with a percent difference (%D) outside primary criteria for both surrogate DCB and TCX (≤0%). No action is taken.

Decachlorobiphenyl, Tetrachloro-m-xylene
E0033DL, E0033RE

4. BLANKS

The following samples contain a concentrations reported below the CRQL and less than to the associated Method Blank CRQL concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not qualified.

4,4'-DDD
E0034, E0036, E0037, E0038, E0038MSD

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The following Pesticide sample has surrogate recovery above the QC limits (30-150%). Hits are qualified "J".

E0033 (154%)

The following diluted Pesticide sample has surrogate recovery below the QC limits (30-150%) and less than 10%. Region 5 protocol is when samples are diluted to 5 or greater the sample results are not qualified.

E0033DL

The following Aroclor sample has surrogate recoveries above the QC criteria (30-150%). Hits are qualified "J".

E0033RE

The following diluted Aroclor sample has surrogate recoveries below the QC criteria (30-150%). Hit and non-detects are not qualified. Region 5's protocol is that when dilution is 5 or greater no action is done for qualification.

E0033DL

The following diluted Aroclor sample has surrogate recoveries below the QC criteria (30-150%) and less than 10%. Hit are qualified "J" and non-detects are qualified "R".

ALCS17

6A. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The following Pesticide sample has a recovery above the QC criteria and greater than 100%. The unspiked sample E0038 reported no detects for Endrin. Non-detect for Endrin in unspiked sample E0038 is qualified "UJ".

E0038MS
Endrin

The following Pesticide samples have recoveries below the QC criteria. The presence of gamma-BHC (Lindane) in the unspiked sample E0038 is qualified "J" and a non-detect is qualified "R".

E0038MS, E0038MSD
Gamma-BHC (Lindane)

6B. LABORATORY CONTROL SAMPLE

The following Pesticide samples have recoveries above the QC criteria. The presence of Endrin, Endosulfan sulfate and gamma-Chlordane in the samples are qualified "J".

E0033, E0038MSD
Endrin, gamma-Chlordane

E0037, E0040
Endrin, Endosulfan sulfate

E0038, E0039
Gamma-Chlordane

E0038MS
Endrin

7. FIELD BLANK AND FIELD DUPLICATE

There are no Field Blanks or Field Duplicates with this data package. Results are not qualified based upon the results of the field duplicates.

8. INTERNAL STANDARDS

Internal Standards are not applicable to this package.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all Pesticide and Aroclor compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following Pesticide samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E0033
Gamma-BHC, alpha-Chlordane

E0034
Endosulfan I, 4,4'-DDE, Endosulfan II, 4,4'-DDT

E0036
4,4'-DDE

E0037
Heptachlor epoxide, Endrin, Endosulfan II, Endosulfan sulfate, Endrin aldehyde

E0038
Dieldrin, 4,4'-DDE, 4,4'-DDT, Endrin ketone, gamma-Chlordane

E0038MS
Endrin ketone

E0038MSD
Endrin ketone, Endrin aldehyde, gamma-Chlordane

E0039
Heptachlor, Endosulfan I, Methoxychlor

E0040
Heptachlor, Endrin, Endosulfan sulfate, 4,4-DDT, Methoxychlor, Endrin aldehyde, gamma-Chlordane

PBLK16
4,4'-DDD

PLCS16
Endosulfan sulfate

The following Pesticide samples have an analytes for which the percent difference between column results exceeds primary criteria of 25%. Positive result is qualified "J".

E0033
Gamma-BHC, Heptachlor epoxide, Endosulfan I, 4,4'-DDE, Endosulfan II, alpha-Chlordane, gamma-Chlordane

E0034
Endosulfan I, Endosulfan II, 4,4'-DDT

E0036
4,4'-DDE

E0037
Heptachlor epoxide, Endrin, Endosulfan II, Endosulfan sulfate, 4,4'-DDT, Endrin aldehyde

E0038
Gamma-Chlordane

E0038MSD
Endrin aldehyde

E0039
Heptachlor

E0040
Endrin, 4,4'-DDD, Endosulfan sulfate, 4,4-DDT, Methoxychlor, Endrin aldehyde, gamma-Chlordane

PLCS16
Endosulfan sulfate, gamma-Chlordane

The following Aroclor sample has analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E0038MS
Aroclor 1260

E0040
Aroclor 1016, Aroclor 1248

The following Aroclor samples have an analytes for which the percent difference between column results exceeds primary criteria of 25%. Positive result is qualified "J".

E0033RE
Aroclor 1016, Aroclor 1232, Aroclor 1248, Aroclor 1254, Aroclor 1268

E0040
Aroclor 1221, Aroclor 1248

11. SYSTEM PERFORMANCE

The GC baseline for the pesticide and Aroclor analysis was acceptable.

12. ADDITIONAL INFORMATION

The Chain of Custody for the Pesticide and Aroclor fractions was not in this package. The laboratory inserted the Volatile and Semivolatile Chain of Custody. This reviewer is using the date of collections of the Volatile and Semivolatile fractions as the date for the Pesticide and Aroclors since the sample numbers are the same.

The following Pesticide samples have analyte detections "false positive" and is flagged by the laboratory as "P". Region 5 protocol is that whenever the "P" value is less than 25% of the CRQL the value is elevated to the CRQL and qualified "U".

E0034
Endrin, Endrin ketone, gamma-Chlordane

E0036
4,4'-DDE, Endrin, Endosulfan II, 4,4'-DDT, Endrin ketone, gamma-Chlordane

E0037
Endosulfan I

E0038
Heptachlor epoxide, Endosulfan I, Endosulfan II

E0038MS
4,4'-DDE, Endosulfan sulfate, Endosulfan II, 4,4'-DDD, gamma-Chlordane

E0038MSD
Endosulfan I, 4,4-DDE, Endosulfan II

E0040
Heptachlor epoxide, Endosulfan I

PBLK16
Gamma-Chlordane

The following Pesticide samples have analyte detections "false positive" and is flagged by the laboratory as "P". Region 5 protocol is that whenever the "P" value is less than 25% of the CRQL the value is elevated to the CRQL and qualified "UJ" because of calibration.

E0033, E0034
Alpha-BHC

E0037, E0038MSD
Methoxychlor

E0038
Heptachlor, Endrin

E0039
Gamma-BHC (Lindane)

The following Pesticide sample has an analyte that exceeded the instruments calibration range. For any analyte that exceeded the calibration range the results from the diluted sample should be considered the final concentration. Hits are flagged estimated "J".

E0033
Heptachlor epoxide, Endrin ketone, gamma-Chlordane

The following Aroclor sample has analyte detections "false positive" and is flagged by the laboratory as "P". Region 5 protocol is that whenever the "P" value is less than 25% of the CRQL the value is elevated to the CRQL and qualified "U".

E0040
Aroclor 1254, Aroclor 1260, Aroclor 1262, Aroclor 1268

The laboratory ran Aroclor analysis for sample E0033 before running the Pesticide analysis. The Aroclor chromatogram for sample E0033 looked out of calibration range (flat top peaks). The laboratory diluted Aroclor sample E0033 (5 fold) and also ran a reanalysis of the sample (E0033RE). The laboratory used the same instrument and column for both analyses. After reviewing the chromatogram and the results for the Pesticide sample E0033 (which reported 9 hits) this reviewer concluded that undiluted sample for Aroclor analysis should be the final result. Enclosed is a hard copies of the

aroclor raw data for E0033, E0033DL and E0033RE and pesticide raw data for E0033.

CADRE did not include the results for Pesticide sample PLCS16 and Aroclor samples ALCS17 and ACLS18 in the electronic spreadsheets. The end user should refer to the hard copy for the results.

On the Pesticide Calibration Verification Summary 7K-Form VII Pest-2 the laboratory reported INDA303 on the same form as INDA304 instead of its companion standard INDB303. From the sequence log the standards were analyzed in the proper order but the presentation of the results on the Form VII does not follow the example in SOW SOM01.1 (5/2005).

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present.)

DATE: July 6, 2006

IEPA
Attn: Mr. Bob Casper
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

SITE NAME: Dunavan Oil (IL)

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
35229	Envirosystems	20	E0001	soil

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: **U.S. EPA - Region 5**
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat Johnson
Data Coordinator
ESAT Region 5 **TechLaw**

JUL 10 2006

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: May 25, 2006

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

for Stev Ostrodka
Richard L Begnik
6/30/06

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE Name: Dunavan Oil (IL)

Case Number: 35229 SDG Number: E0001

Number and Type of Samples: 20 (soil) (VOA, SV)

Sample Numbers: E0001 through E0009, E0014 through E0019 and E0027 through E0031

Laboratory: Envirosystems Inc. Hrs for Review:

Following are our findings:

the data are useable and acceptable, except for Low/Med Volatile Organic Analyses, with the qualifications described in the attached narrative. All Low/Med Volatile Organic analyses are rejected, because the laboratory did not analyze a closing continuing calibration standard.

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Richard L Begnik

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0001
Laboratory: Envirosystems

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Twenty (20) soil samples, numbered E0001 through E0009, E0014 through E0019 and E0027 through E0031 were collected on April 5, 11 and 12, 2006. The lab received the samples on April 12 to 14, 2006 in good condition. The samples E0001 through E0009, E0014 through E0019 and E0027 through E0031 were analyzed for low level Semivolatile list of organic analytes. The samples E0001 through E0009, E0014 through E0019, E0027 and E0028 were analyzed for low level Volatile list of organic analytes. All samples were analyzed according to CLP SOW SOM01.1 (5/2005). The samples were validated according to USEPA CLP National Functional Guidelines for Superfund Organic Methods Data Review (1/2005).

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0001
Laboratory: Envirosystems

1. HOLDING TIME

No defects were found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

The following volatile samples associated with the opening and closing calibration the data should be qualified as "R" since the closing CCV was unable to be determined.

E0001, E0002, E0003, E0004, E0005, E0006, E0007, E0008, E0009, E0014, E0015, E0016, E0017, E0017RE, E0018, E0019, E0027, E0028, VBLKHI, VBLKHU

3. CALIBRATION

The following volatile samples are associated with the opening continuing calibration percent difference (%D) outside primary criteria. The results are qualified "R" because the closing CCV was not performed.

Bromomethane
E0001, E0002, E0003, E0004, E0005, E0006, E0007, E0008, E0009, VBLKHU

The following volatile samples are associated with a continuing calibration in which a SMC/DMC exceeded percent difference (%D) criteria. No action is taken on the DMC %RSD and RRF data alone.

2-Butanone-d5
E0001, E0002, E0003, E0004, E0005, E0006, E0007, E0008, E0009, VBLKHU

The following semivolatile samples are associated with the opening continuing calibration whose corresponding initial calibration has relative response factors (RRFs) outside primary criteria. Hits are flagged "J" and non-detects are qualified "R".

Pentachlorophenol
E0001, E0002, E0003, E0004, E0005, E0005MS, E0005MSD, E0006, E0007, E0008, E0009, E0014, E0015, E0016, E0017, E0018, E0019, E0027, E0028, E0029, E0030, E0030DL, E0031, SBLK11, SBLK15, SBLK19

The following semivolatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits and non-detects are qualified in the previous statement.

Pentachlorophenol
E0001, E0002, E0003, E0004, E0005, E0005MS, E0005MSD, E0006, E0007, E0008,

E0009, E0014, E0015, E0016, E0017, E0018, E0019, E0027, E0028, E0029, E0030, E0030DL, E0031; SBLK11, SBLK15, SBLK19

The following semivolatile samples are associated with the closing continuing calibration percent difference (%D) outside primary criteria. Detected results for the compound were not reported in the samples and non-detected results should be qualified "UJ".

3,3'-Dichlorobenzidine
E0005MS, E0005MSD, E0009, E0014, E0016, E0027, E0028

The following semivolatile samples are associated with the closing continuing calibration percent difference (%D) outside primary criteria. Detected results for the compound were not reported in the samples and non-detected results should be qualified "R" due to poor Deuterated Monitoring Compound recovery.

3,3'-Dichlorobenzidine
E0015, E0018

4. BLANKS

The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to two times (2X) the CRQL. Hits are elevated to the CRQL . The results are qualified "R" because the closing CCV was not performed.

Methylene Chloride
E0001, E0002, E0003, E0004, E0005, E0006, E0007, E0008, E0009

There was no instrument blank run after highly contaminated semivolatile sample. Hits are qualified "J".

E0017, E0030DL
Phenanthrene, Fluoranthene, Pyrene, Benzo (a) anthracene, Chrysene

5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY

The following volatile samples have Deuterated Monitoring Compound recoveries above the QC limits. The results are qualified "R" because the closing CCV was not performed.

E0008, E0009
Trichlorofluoromethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Methyl Acetate, Methylene Chloride, Methyl-tert-butyl ether, 1,1,1-Trichloroethane, Carbon Tetrachloride, 1,2-Dichloroethane, 1,2-Dibromoethane

The following semivolatile water samples have Deuterated Monitoring Compound

recoveries below the QC limits. Hits should be qualified "J" and non-detects are qualified "UJ".

E0001
Benzo (b) fluoranthene, Benzo (k) fluoranthene, Benzo (a) pyrene, Indeno (1,2,3-cd) pyrene, Dibenzo (a,h) anthracene, Benzo (g,h,i) perylene

E0014
Fluoranthene, Pyrene, Benzo (a) anthracene, Chrysene, Benzo (b) fluoranthene, Benzo (k) fluoranthene, Benzo (a) pyrene, Indeno (1,2,3-cd) pyrene, Dibenzo (a,h) anthracene, Benzo (g,h,i) perylene

The following semivolatile samples have 0% recoveries for a Deuterated Monitoring Compound. There are no detects to qualify non-detects are qualified "R".

E0004, E0015, E0018, E0029, E0031
4-Chloroaniline, Hexachlorocyclopentadiene, 3,3'-Dichlorobenzidine

The following diluted semivolatile sample has recoveries above the QC criteria for Deuterated Monitoring Compounds. Region 5 protocol is when the sample has a dilution factor of 5 or greater no action is taken.

E0030DL
Bis (2-Chloroethyl) ether, 2,2'-oxybis (1-chloropropane), bis (2-Chloroethoxy) methane, Naphthalene, 2-Methylnaphthalene, 2-Chloronaphthaleene, 2-Nitroaniline, Acenaphthylene, 3-Nitroaniline, Acenaphthene, 2,4-Dinitrophenol, 4-Nitrophenol, Dibenzofuran, Fluorene, 4-Chlorophenyl-phenylether, 4-Nitroaniline, 4-Bromophenyl-phenylether, Carbazole

The following diluted semivolatile sample has recoveries below the QC criteria for Deuterated Monitoring Compounds. Region 5 protocol is when the sample has a dilution factor of 5 or greater no action is taken.

E0030DL
4-Chloroaniline, Hexachlorocyclopentadiene, 3,3'-Dichlorobenzidine

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No defects were found.

7. FIELD BLANK AND FIELD DUPLICATE

There are no Field Blanks or Field Duplicates with this data package. Results are not qualified based upon the results of the field duplicates.

8. INTERNAL STANDARDS

The following volatile samples have the area count below the QC criteria. The results are qualified "R" because the closing CCV was not performed.

E0006, E0009, E0018, E0027
Bromoform, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

E0008, E0028
Dichlorodifluoromethane, Chloromethane, Vinyl Chloride, Bromomethane, Chloroethane, Trichlorofluoromethane, 1,1-Dichloroethene, 1,1,2-Trichloro-1,2,2-trifluoroethane, Acetone, Carbon Disulfide, Methyl Acetate, Methylene Chloride, trans-1,2-Dichloroethene, Methyl tert-butyl ether, 1,1-Dichloroethane, cis-1,2-Dichloroethene, 2-Butanone, Bromochloromethane, Chloroform, 1,1,1-Trichloroethane, Cyclohexane, Carbon Tetrachloride, Benzene, 1,2-Dichloroethane, 1,4-Dioxane, Trichloroethene, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane, cis-1,3-Dichloropropene, 4-Methyl-2-pentanone, Toluene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, Tetrachloroethene, 2-Hexanone, Dibromochloromethane, 1,2-Dibromomethane, Chlorobenzene, Ethylbenzene, o-Xylene, m,p-Xylene, Styrene, Bromoform, Isopropylbenzene, 1,1,2,2-Tetrachloroethane, 1,3-Dichlorobenzene,1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

E0017RE, E0019
1,1,1-Trichloroethane, Cyclohexane, Carbon Tetrachloride, Benzene, Trichloroethene, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane, cis-1,3-Dichloropropene, 4-Methyl-2-pentanone, Toluene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, Tetrachloroethene, 2-Hexanone, Dibromochloromethane, 1,2-Dibromomethane, Chlorobenzene, Ethylbenzene, o-Xylene, m,p-Xylene, Styrene, Bromoform, Isopropylbenzene, 1,1,2,2-Tetrachloroethane, 1,3-Dichlorobenzene,1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA and SVOA compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL. The results are qualified "R" because the closing CCV was not performed.

E0001, E0007, E0008, E0014, E0018
Acetone

E0004
1,1-Dichloroethane, 2-Butanone

E0009
Chloroform

E0015, E0016
Acetone, 1,1-Dichloroethane

E0017
1,1-Dichloroethane, o-Xylene

E0017RE
2-Butanone, trans-1,3-Dichloropropene, Ethylbenzene, m,p-Xylene, Isopropylbenzene

E0027
Acetone, cis-1,3-Dichloropropene, 2-Hexanone

E0028, VBLKHU
Methyl Chloride

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E0002, E0005MSD, E0006, E0014, E0015, E0016
Acetophenone

E0003, E0005, E0008
Bis (2-Ethylhexyl) phthalate

E0017
Naphthalene, 2-Methylnaphthalene, Fluorene, Phenanthrene, Fluoranthene, Pyrene, Benzo (a) anthracene, Chrysene, bis (2-Ethylhexyl) phthalate, Benzo (b) fluoranthene, Benzo (k) fluoranthene, Benzo (a) pyrene

E0018
Benzaldehyde, Phenol, Acetophenone, Benzo (a) anthracene

E0019
Benzaldehyde, Phenol, Naphthalene, Dibenzofuran, Fluorene, Anthracene, Fluoranthene, Pyrene

E0028
Acetophenone, Pyrene, bis (2-Ethylhexyl) phthalate

E0029
Anthracene, Indeno (1,2,3-cd) pyrene

E0030
1,1'-Biphenyl, Acenaphthene, Carbazole, Di-n-butylphthalate

E0030DL
Acetophenone, Acenaphthylene, Fluorene, Carbazole, Dibenzo (a,h) anthracene, Benzo (g,h,i) perylene

E0031
Acetophenone, Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Dibenzofuran, Anthracene, Carbazole, Benzo (g,h,i) perylene

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

12. ADDITIONAL INFORMATION

The laboratory did not provide information on the closing CCVs as required according to CLP SOW SOM01.1 (5/2005) for analysis conducted on April 14 and 16, 2006. The opening CCVs were conducted at the start of each day. The sample analyses were conducted within the 12 hour clock of the opening CCVs. This reviewer was unable to determine if the required frequency was meet; therefore the data should be qualified "R" and the Laboratory Program Project Officer (CLP PO) should be notified.

CADRE reported volatile method blank VBLKHR. No raw data or Form Is for this QC sample was found with this SDG.

The following samples have semivolatile target analytes identified as semivolatile TICs. Benz (e) Acephenanthrylene CAS Number 205-99-2 is the same as Benzo (b) fluoranthene. Positive results are qualified "J".

E0029
Benzo (b) fluoranthene

CADRE has entered results in the EDD file for Benzo (e) Acephenanthrylene line 2242 and Benzo (b) fluoranthene line 2243 for the sample E0029 in the Semivolatile fraction. Benzo (e) Acephenanthrylene and Benzo (b) fluoranthene are the same compound having the same CAS number 205-99-2.

The following Semivolatile sample has analytes that exceeded the instruments calibration range. For any analyte that exceeded the calibration range the results are qualified as estimated "J". The results from the diluted sample should be considered the final concentration.

E0030
Phenanthrene, Fluoranthene, Pyrene, Benzo (a) anthracene, Chrysene

Semivolatile sample E0017 was reported at a dilution factor of 5.

CADRE did not list all the TICs for the samples. The end user should refer to the enclosed hard copy for the final results.

CADRE listed [2-Methylnaphthalene] line number 2002 and [Naphthalene, 2-Methyl-] line number 2001 are duplicate entries both on the EDD file for sample E0019 semivolatile fraction.

CADRE did not list the following semivolatile samples in the spreadsheets. The end user should refer to the hard copy enclosed for the results.

E0005MS, E0005MSD, E0030DL, SBLK11, SBLK15, SBLK19

CADRE used OLM04.3 CRQL values of 330 µg/Kg and 830 µg/Kg instead of SOM01.1 CRQL values of 170 µg/Kg and 330 µg/Kg for the semivolatile fraction. Detected values were corrected in the spreadsheets.

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present.)

National Functional Guidelines Report # 9

13:38 Mon, Jun 5, 2006

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0001 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31437

VOA_Low_Med Sample=E0017 Location=X113 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
565-59-3	Pentane, 2,3-dimethyl-	5.52	36	ug/kg	JDN
589-34-4	Hexane, 3-methyl-	5.61	95		JDN
2815-58-9	Cyclopentane, 1,2,4-trimethyl-	6.7	76		JDN
15890-40-1	Cyclopentane, 1,2,3-trimethyl-, (1.alpha	6.83	85		JDN
638-04-0	Cyclohexane, 1,3-dimethyl-, cis-	7.34	58		JDN
583-57-3	Cyclohexane, 1,2-dimethyl-	7.67	38		JDN
3073-66-3	Cyclohexane, 1,1,3-trimethyl-	8.24	59		JDN
7667-60-9	Cyclohexane, 1,2,4-trimethyl-, (1.alpha.	8.45	30		JDN
2051-30-1	Octane, 2,6-dimethyl-	9.42	55		JDN
13395-76-1	Cyclohexanone, 2,3-dimethyl-	9.54	48		JDN
17301-94-9	Nonane, 4-methyl-	9.76	37		JDN
2847-72-5	Decane, 4-methyl-	10.51	43		JDN
873-49-4	Benzene, cyclopropyl-	11.23	27		JDN
99-87-6	Benzene, 1-methyl-4-(1-methylethyl)-	11.68	34		JDN
95-93-2	Benzene, 1,2,4,5-tetramethyl-	12.14	41		JDN
2039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	12.56	37		JDN
17301-28-9	Undecane, 3,6-dimethyl-	12.62	31		JDN
3891-98-3	Dodecane, 2,6,10-trimethyl-	14.23	26		JDN

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0001 **Case** 35229 **Contract** EPW05033 **Region** 5 ***DDTID*** *31437*

VOA_Low_Med Sample=E0017RE Location=No_TR_data Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
589-34-4	Hexane, 3-methyl-	5.61	24	ug/kg	JDN
15890-40-1	Cyclopentane, 1,2,3-trimethyl-, (1 alpha	6.84	19		JDN
583-57-3	Cyclohexane, 1,2-dimethyl-	7.34	15		JDN
3073-66-3	Cyclohexane, 1,1,3-trimethyl-	8.25	16		JDN
2051-30-1	Octane, 2,6-dimethyl-	9.42	15		JDN
1678-92-8	Cyclohexane, propyl-	9.54	15		JDN
103-65-1	Benzene, propyl-	10.09	14		JDN
611-14-3	Benzene, 1-ethyl-2-methyl-	10.46	14		JDN
2847-72-5	Decane, 4-methyl-	10.51	16		JDN
108-67-8	Benzene, 1,3,5-trimethyl-	10.63	13		JDN
2870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	11.59	17		JDN
767-58-8	Indan, 1-methyl-	11.79	16		JDN
29949-27-7	n-Amylcyclohexane	11.99	16		JDN
535-77-3	Benzene, 1-methyl-3-(1-methylethyl)-	12.09	14		JDN
527-53-7	Benzene, 1,2,3,5-tetramethyl-	12.14	28		JDN
3454-07-7	Benzene, 1-ethenyl-4-ethyl-	12.56	27		JDN
17301-23-4	Undecane, 2,6-dimethyl-	12.63	14		JDN
4920-99-4	Benzene, 1-ethyl-3-(1-methylethyl)-	12.93	13		JDN
581-40-8	Naphthalene, 2,3-dimethyl-	15.5	14		JDN

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0001 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31437

VOA_Low_Med Sample=E0027 Location=X114 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
Unknown-01	Unknown-01	1.5	26	ug/kg	JDB

National Functional Guidelines Report # 9

13:38 Mon, Jun 5, 2006

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0001 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31437

BNA Sample=E0015 Location=X111 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
79-34-5	Ethane, 1,1,2,2-tetrachloro-	6.36	89	ug/kg	JN

National Functional Guidelines Report # 9

13:38 Mon, Jun 5, 2006

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0001 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31437

BNA Sample=E0016 Location=X112 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
79-34-5	Ethane, 1,1,2,2-tetrachloro-	6.37	100	ug/kg	JN

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0001 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31437

BNA Sample=E0017 Location=X113 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkane TICs		33000	ug/kg	JD
E966796	Total Alkane TICs		33000		
Unknown-01	Unknown-01	11.23	2900		JD
90-12-0	Naphthalene, 1-methyl-	12.74	1100		JDN
581-42-0	Naphthalene, 2,6-dimethyl-	13.99	2100		JDN
581-40-8	Naphthalene, 2,3-dimethyl-	14.19	2200		JDN
582-16-1	Naphthalene, 2,7-dimethyl-	14.23	2600		JDN
134261-85-1	3-(2-Methyl-propenyl)-1H-indene	15.25	1200		JDN
2245-38-7	Naphthalene, 1,6,7-trimethyl-	15.52	1400		JDN
2131-42-2	Naphthalene, 1,4,6-trimethyl-	15.58	1500		JDN
140-66-9	Phenol, 4-(1,1,3,3-tetramethylbutyl)-	16.39	3800		JDN

National Functional Guidelines Report # 9

13:38 Mon, Jun 5, 2006

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0001 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31437

BNA Sample=E0018 Location=S101 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkane TICs		440	ug/kg	J
E966796	Total Alkane TICs		440		
57-10-3	n-Hexadecanoic acid	20.08	240		JN
Unknown-01	Unknown-01	26.27	440		J
83-47-6	.gamma.-Sitosterol	30.9	2700		JN
58-22-0	Testosterone	32.2	780		JN

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0001 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31437

BNA Sample=E0019 Location=S102 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkane TICs		1200	ug/kg	J
E966796	Total Alkane TICs		1200		
108-67-8	Benzene, 1,3,5-trimethyl-	7.78	190		JN
526-73-8	Benzene, 1,2,3-trimethyl-	8.27	180		JN
2039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	10.35	170		JN
91-57-6	Naphthalene, 2-methyl-	12.74	480		JN
1127-76-0	Naphthalene, 1-ethyl-	13.84	290		JN
582-16-1	Naphthalene, 2,7-dimethyl-	13.99	360		JN
581-40-8	Naphthalene, 2,3-dimethyl-	14.19	800		JN
571-61-9	Naphthalene, 1,5-dimethyl-	14.23	550		JN
571-58-4	Naphthalene, 1,4-dimethyl-	14.44	570		JN
2027-17-0	Naphthalene, 2-(1-methylethyl)-	15.24	210		JN
2245-38-7	Naphthalene, 1,6,7-trimethyl-	15.51	230		JN
2131-42-2	Naphthalene, 1,4,6-trimethyl-	15.58	370		JN
829-26-5	Naphthalene, 2,3,6-trimethyl-	15.99	450		JN
605-39-0	2,2'-Dimethylbiphenyl	16.09	210		JN
7320-53-8	Dibenzofuran, 4-methyl-	16.67	190		JN
947-91-1	Benzeneacetaldehyde, .alpha.-phenyl-	17.14	390		JN
Unknown-01	Unknown-01	17.45	1200		J
779-02-2	Anthracene, 9-methyl-	19.91	270		JN

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0001 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31437

BNA Sample=E0028 Location=X115 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
111-06-8	Hexadecanoic acid, butyl ester	22.19	1400	ug/kg	JN

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0001 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31437

BNA Sample=E0029 Location=S106 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkane TICs		1400	ug/kg	J
E966796	Total Alkane TICs		1400		
Unknown-01	Unknown-01	17.45	190		J
238-84-6	11H-Benzo[a]fluorene	22.65	190		JN
205-99-2	Benz[e]acephenanthrylene	27.62	330		JN

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0001 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31437

BNA Sample=E0030 Location=S107 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkane TICs		11000	ug/kg	J
E966796	Total Alkane TICs		11000		
95-63-6	Benzene, 1,2,4-trimethyl-	7.78	1100		JN
620-14-4	Benzene, 1-ethyl-3-methyl-	8.27	1200		JN
493-02-7	Naphthalene, decahydro-, trans-	8.83	1000		JN
90-12-0	Naphthalene, 1-methyl-	12.75	3800		JN
Unknown-01	Unknown-01	13.5	1100		J
1127-76-0	Naphthalene, 1-ethyl-	13.9	1200		JN
581-42-0	Naphthalene, 2,6-dimethyl-	13.99	2000		JN
581-40-8	Naphthalene, 2,3-dimethyl-	14.2	4200		JN
575-37-1	Naphthalene, 1,7-dimethyl-	14.24	3200		JN
575-43-9	Naphthalene, 1,6-dimethyl-	14.5	1100		JN
629-62-9	Pentadecane	15.06	1300		JN
2245-38-7	Naphthalene, 1,6,7-trimethyl-	15.52	1100		JN
2131-42-2	Naphthalene, 1,4,6-trimethyl-	15.78	1700		JN
605-39-0	2,2'-Dimethylbiphenyl	16.1	1100		JN
7320-53-8	Dibenzofuran, 4-methyl-	16.68	1200		JN
947-91-1	Benzeneacetaldehyde, .alpha.-phenyl-	17.15	3000		JN
613-12-7	Anthracene, 2-methyl-	19.72	2700		JN
610-48-0	Anthracene, 1-methyl-	19.92	2800		JN
111-06-8	Hexadecanoic acid, butyl ester	22.2	860		JN
82-05-3	7H-Benz[de]anthracen-7-one	23.89	890		JN

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0001 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31437

BNA Sample=E0030DL Location=No_TR_data Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkane TICs		15000	ug/kg	JD
E966796	Total Alkane TICs		15000		
90-12-0	Naphthalene, 1-methyl-	12.74	5100		JDN
1127-76-0	Naphthalene, 1-ethyl-	13.89	1300		JDN
575-37-1	Naphthalene, 1,7-dimethyl-	13.99	2500		JDN
581-40-8	Naphthalene, 2,3-dimethyl-	14.19	5600		JDN
582-16-1	Naphthalene, 2,7-dimethyl-	14.23	3900		JDN
Unknown-01	Unknown-01	15.06	1600		JD
2245-38-7	Naphthalene, 1,6,7-trimethyl-	15.58	2000		JDN
2131-42-2	Naphthalene, 1,4,6-trimethyl-	15.78	1900		JDN
829-26-5	Naphthalene, 2,3,6-trimethyl-	15.99	2500		JDN
1812-51-7	1,1'-Biphenyl, 2-ethyl-	16.09	1300		JDN
7320-53-8	Dibenzofuran, 4-methyl-	16.67	1600		JDN
947-91-1	Benzeneacetaldehyde, .alpha.-phenyl-	17.14	3300		JDN
486-25-9	9H-Fluoren-9-one	18	2100		JDN
610-48-0	Anthracene, 1-methyl-	19.65	1900		JDN
613-12-7	Anthracene, 2-methyl-	19.72	2900		JDN
239-30-5	Benzo[b]naphtho[2,1-d]furan	21.84	3700		JDN
82-05-3	7H-Benz[de]anthracen-7-one	23.88	3600		JDN

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0001 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31437

BNA Sample=E0031 Location=S108 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkane TICs		3100	ug/kg	J
E966796	Total Alkane TICs		3100		
7785-70-8	1R-.alpha.-Pinene	6.74	180		JN
555-10-2	.beta.-Phellandrene	7.44	1600		JN
90-12-0	Naphthalene, 1-methyl-	12.74	190		JN
16409-44-2	2,6-Octadien-1-ol, 3,7-dimethyl-, acetat	13.59	140		JN
581-40-8	Naphthalene, 2,3-dimethyl-	14.18	250		JN
581-42-0	Naphthalene, 2,6-dimethyl-	14.23	190		JN
573-98-8	Naphthalene, 1,2-dimethyl-	14.44	160		JN
Unknown-01	Unknown-01	15.05	150		J
465-28-1	Carotol	16.42	420		JN
7320-53-8	Dibenzofuran, 4-methyl-	16.82	220		JN
486-25-9	9H-Fluoren-9-one	17.99	180		JN
832-69-9	Phenanthrene, 1-methyl-	19.9	340		JN
57-10-3	n-Hexadecanoic acid	20.08	390		JN
5737-13-3	Cyclopenta(def)phenanthrenone	21.14	200		JN
243-42-5	Benzo[b]naphtho[2,3-d]furan	21.84	500		JN
243-17-4	11H-Benzo[b]fluorene	22.66	460		JN
2381-21-7	Pyrene, 1-methyl-	23.09	330		JN
82-05-3	7H-Benz[de]anthracen-7-one	23.87	400		JN
192-97-2	Benzo[e]pyrene	27.29	820		JN

Analytical Results (Qualified Data)

Case # 35229 SDG : E0001
Site : DUNAVAN OIL
Lab : ENVSYS
Reviewer
Date :

Number of Soil Samples : 17
Number of Water Samples : 0
Number of Sediment Samples : 0

Sample Number	E0001		E0002		E0003		E0004		E0005	
Sampling Location :	X101		X102		X103		X104		X105	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/11/2006		4/11/2006		4/11/2006		4/11/2006		4/11/2006	
Time Sampled :										
%Moisture :	18		16		18		29		13	
pH :										
Dilution Factor :	1.0		1.0		1.0		5.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
Chloromethane	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
Vinyl chloride	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
Bromomethane	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
Chloroethane	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
Trichlorofluoromethane	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
1,1-Dichloroethane	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
1,1,2-Trichloro-1,2,2-trifluoroethane	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
Acetone	4.9	R	8.6	R	9.7	R	24	R	8.6	R
Carbon Disulfide	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
Methyl acetate	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
Methylene chloride	4.9	R	5.1	R	4.9	R	5.6	R	4.3	R
trans-1,2-Dichloroethene	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
Methyl tert-butyl ether	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
1,1-Dichloroethane	4.9	R	4.3	R	4.9	R	3.8	R	4.3	R
cis-1,2-Dichloroethene	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
2-Butanone	9.8	R	8.6	R	9.7	R	4.8	R	8.6	R
Bromochloromethane	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
Chloroform	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
1,1,1-Trichloroethane	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
Cyclohexane	18	R	4.3	R	4.9	R	5.6	R	4.3	R
Carbon tetrachloride	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
Benzene	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
1,2-Dichloroethane	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
1,4-Dioxane	98	R	86	R	97	R	310	R	86	R
Trichloroethene	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
Methylcyclohexane	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
1,2-Dichloropropane	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
Bromodichloromethane	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
cis-1,3-Dichloropropene	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
4-Methyl-2-pentanone	9.8	R	8.6	R	9.7	R	11	R	8.6	R
Toluene	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
trans-1,3-Dichloropropene	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R

Analytical ResRlts (QRalified Data)

Case # 35229 SDG E0001
Site : DUNAVAN OIL
Lab. : ENVSYS
Reviewer :
Date

Sample Number :	E0001		E0002		E0003		E0004		E0005	
Sampling Location :	X101		X102		X103		X104		X105	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		Rg/Kg		Rg/Kg		Rg/Kg		Rg/Kg	
Date Sampled .	4/11/2006		4/11/2006		4/11/2006		4/11/2006		4/11/2006	
Time Sampled :										
%Moisture :	18		16		18		29		13	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	ResRlt	Flag	ResRlt	Flag	ResRlt	Flag	ResRlt	Flag
1,1,2-Trichloroethane	4.9	R	[illegible]	[illegible]	4.9	R	5.6	R	4.3	R
Tetrachloroethene	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
2-Hexanone	9.6	R	[illegible]	[illegible]	9.7	R	11	R	8.6	R
Dibromochloromethane	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
1,2-Dibromoethane	4.9	R	[illegible]	[illegible]	4.9	R	5.6	R	4.3	R
Chlorobenzene	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
Ethylbenzene	4.9	R	[illegible]	[illegible]	4.9	R	5.6	R	4.3	R
o-Xylene	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
m,p-Xylene	4.9	R	[illegible]	[illegible]	4.9	R	5.6	R	4.3	R
Styrene	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
Bromoform	4.9	R	[illegible]	[illegible]	4.9	R	5.6	R	4.3	R
Isopropylbenzene	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
1,1,2,2-Tetrachloroethane	4.9	R	[illegible]	[illegible]	4.9	R	5.6	R	4.3	R
1,3-Dichlorobenzene	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
1,4-Dichlorobenzene	4.9	R	[illegible]	[illegible]	4.9	R	5.6	R	4.3	R
1,2-Dichlorobenzene	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
1,2-Dibromo-3-chloropropane	4.9	R	[illegible]	[illegible]	4.9	R	5.6	R	4.3	R
1,2,4-Trichlorobenzene	4.9	R	4.3	R	4.9	R	5.6	R	4.3	R
1,2,3-Trichlorobenzene	4.9	R	[illegible]	[illegible]	4.9	R	5.6	R	4.3	R

Analytical ResRlts (QRalified Data)

Case # 35229 SDG E0001
Site DUNAVAN OIL
Lab. ENVSYS
Reviewer :
Date :

Sample Number :	E0006		E0007		E0008		E0009		E0014	
Sampling Location :	X106		X107		X108		X109		X110	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		Rg/Kg		Rg/Kg		Rg/Kg		Rg/Kg	
Date Sampled :	4/11/2006		4/11/2006		4/11/2006		4/11/2006		4/12/2006	
Time Sampled :										
%Moisture :	27		29		13		28		15	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	ResRlt	Flag	ResRlt	Flag	ResRlt	Flag	ResRlt	Flag
Dichlorodifluoromethane	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
Chloromethane	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
Vinyl chloride	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
Bromomethane	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
Chloroethane	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
Trichlorofluoromethane	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
1,1-Dichloroethene	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
Acetone	9.9	R	14	R	4.3	R	10	R	8.8	R
Carbon Disulfide	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
Methyl acetate	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
Methylene chloride	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
trans-1,2-Dichloroethene	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
Methyl tert-butyl ether	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
1,1-Dichloroethane	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
cis-1,2-Dichloroethene	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
2-Butanone	9.9	R	14	R	8.4	R	10	R	8.8	R
Bromochloromethane	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
Chloroform	5.0	R	6.2	R	4.2	R	2.8	R	4.4	R
1,1,1-Trichloroethane	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
Cyclohexane	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
Carbon tetrachloride	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
Benzene	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
1,2-Dichloroethane	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
1,4-Dioxane	99	R	120	R	84	R	100	R	88	R
Trichloroethene	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
Methylcyclohexane	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
1,2-Dichloropropane	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
Bromodichloromethane	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
cis-1,3-Dichloropropene	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
4-Methyl-2-pentanone	9.9	R	14	R	8.4	R	10	R	8.8	R
Toluene	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
trans-1,3-Dichloropropene	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R

Analytical ResRlts (QRalified Data)

Case #. 35229 SDG · E0001
Site : DUNAVAN OIL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number	E0006		E0007		E0008		E0009		E0014	
Sampling Location :	X106		X107		X108		X109		X110	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		Rg/Kg		Rg/Kg		Rg/Kg		Rg/Kg	
Date Sampled :	4/11/2006		4/11/2006		4/11/2006		4/11/2006		4/12/2006	
Time Sampled										
%Moisture :	27		29		13		28		15	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	ResRlt	Flag	ResRlt	Flag	ResRlt	Flag	ResRlt	Flag
1,1,2-Trichloroethane	5.0	R	[illegible]	[illegible]	4.2	R	5.1	R	4.4	R
Tetrachloroethene	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
2-Hexanone	9.9	R	[illegible]	[illegible]	8.4	R	10	R	8.8	R
Dibromochloromethane	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
1,2-Dibromoethane	5.0	R	[illegible]	[illegible]	4.2	R	5.1	R	4.4	R
Chlorobenzene	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
Ethylbenzene	5.0	R	[illegible]	[illegible]	4.2	R	5.1	R	4.4	R
o-Xylene	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
m,p-Xylene	5.0	R	[illegible]	[illegible]	4.2	R	5.1	R	4.4	R
Styrene	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
Bromoform	5.0	R	[illegible]	[illegible]	4.2	R	5.1	R	4.4	R
Isopropylbenzene	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
1,1,2,2-Tetrachloroethane	5.0	R	[illegible]	[illegible]	4.2	R	5.1	R	4.4	R
1,3-Dichlorobenzene	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
1,4-Dichlorobenzene	5.0	R	[illegible]	[illegible]	4.2	R	5.1	R	4.4	R
1,2-Dichlorobenzene	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
1,2-Dibromo-3-chloropropane	5.0	R	[illegible]	[illegible]	4.2	R	5.1	R	4.4	R
1,2,4-Trichlorobenzene	5.0	R	6.2	R	4.2	R	5.1	R	4.4	R
1,2,3-Trichlorobenzene	5.0	R	[illegible]	[illegible]	4.2	R	5.1	R	4.4	R

Analytical ResRlts (QRalified Data)

Case #: 35229 SDG E0001
Site : DUNAVAN OIL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0015		E0016		E0017		E0017RE		E0018	
Sampling Location :	X111		X112		X113		X113		S101	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		Rg/Kg		Rg/Kg		Rg/Kg		Rg/Kg	
Date Sampled :	4/12/2006		4/12/2006		4/12/2006		4/12/2006		4/12/2006	
Time Sampled :										
%Moisture :	12		8		37		37		49	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	ResRlt	Flag	ResRlt	Flag	ResRlt	Flag	ResRlt	Flag
Dichlorodifluoromethane	4.2	R	3.9	R	7.2	R	7.2	R	8.2	R
Chloromethane	4.2	R	3.9	R	7.2	R	7.2	R	8.2	R
Vinyl chloride	4.2	R	[illegible]	[illegible]	7.2	R	7.2	R	8.2	R
Bromomethane	4.2	R	3.9	R	7.2	R	7.2	R	8.2	R
Chloroethane	4.2	R	[illegible]	[illegible]	7.2	R	7.2	R	8.2	R
Trichlorofluoromethane	4.2	R	3.9	R	7.2	R	7.2	R	8.2	R
1,1-Dichloroethene	4.2	R	[illegible]	[illegible]	7.2	R	7.2	R	8.2	R
1,1,2-Trichloro-1,2,2-trifluoroethane	4.2	R	3.9	R	7.2	R	7.2	R	8.2	R
Acetone	5.4	R	[illegible]	[illegible]	53	R	32	R	10	R
Carbon Disulfide	4.2	R	3.9	R	7.2	R	7.2	R	8.2	R
Methyl acetate	4.2	R	[illegible]	[illegible]	13	R	7.2	R	8.2	R
Methylene chloride	4.2	R	3.9	R	7.2	R	7.2	R	8.2	R
trans-1,2-Dichloroethene	4.2	R	[illegible]	[illegible]	7.2	R	7.2	R	8.2	R
Methyl tert-butyl ether	4.2	R	3.9	R	7.2	R	7.2	R	8.2	R
1,1-Dichloroethane	1.7	R	[illegible]	[illegible]	3.0	R	7.2	R	8.2	R
cis-1,2-Dichloroethene	4.2	R	3.9	R	7.2	R	7.2	R	8.2	R
2-Butanone	5.4	R	[illegible]	[illegible]	15	R	7.0	R	16	R
Bromochloromethane	4.2	R	3.9	R	7.2	R	7.2	R	8.2	R
Chloroform	4.2	R	[illegible]	[illegible]	7.2	R	7.2	R	8.2	R
1,1,1-Trichloroethane	4.2	R	3.9	R	7.2	R	7.2	R	8.2	R
Cyclohexane	4.2	R	3.9	R	7.2	R	8.7	R	8.2	R
Carbon tetrachloride	4.2	R	3.9	R	7.2	R	7.2	R	8.2	R
Benzene	4.2	R	[illegible]	[illegible]	7.2	R	7.5	R	8.2	R
1,2-Dichloroethane	4.2	R	3.9	R	7.2	R	7.2	R	8.2	R
1,4-Dioxane	84	R	[illegible]	[illegible]	140	R	140	R	160	R
Trichloroethene	4.2	R	3.9	R	7.2	R	7.2	R	8.2	R
Methylcyclohexane	4.2	R	[illegible]	[illegible]	32	R	10	R	8.2	R
1,2-Dichloropropane	4.2	R	3.9	R	7.2	R	7.2	R	8.2	R
Bromodichloromethane	4.2	R	[illegible]	[illegible]	7.2	R	7.2	R	8.2	R
cis-1,3-Dichloropropene	4.2	R	3.9	R	7.2	R	7.2	R	8.2	R
4-Methyl-2-pentanone	8.2	R	[illegible]	[illegible]	14	R	11	R	16	R
Toluene	4.2	R	3.9	R	7.2	R	7.2	R	8.2	R
trans-1,3-Dichloropropene	4.2	R	3.9	R	7.2	R	3.6	R	8.2	R

Analytical ResRlts (QRalified Data)

Case #: 35229 SDG : E0001
Site : DUNAVAN OIL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0015		E0016		E0017		E0017RE		E0018	
Sampling Location :	X111		X112		X113		X113		S101	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		Rg/Kg		Rg/Kg		Rg/Kg		Rg/Kg	
Date Sampled :	4/12/2006		4/12/2006		4/12/2006		4/12/2006		4/12/2006	
Time Sampled :										
%Moisture :	12		8		37		37		49	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1 0	
Volatile Compound	Result	Flag	ResRlt	Flag	ResRlt	Flag	ResRlt	Flag	ResRlt	Flag
1,1,2-Trichloroethane	4.2	R	[illegible]	[illegible]	7.2	R	7.2	R	8.2	R
Tetrachloroethene	4.2	R	3.9	R	7.2	R	7 2	R	8.2	R
2-Hexanone	8.4	R	[illegible]	[illegible]	14	R	14	R	16	R
Dibromochloromethane	4.2	R	3.9	R	7.2	R	7 2	R	8 2	R
1,2-Dibromoethane	4.2	R	[illegible]	[illegible]	7.2	R	7.2	R	8.2	R
Chlorobenzene	4.2	R	3.9	R	7.2	R	7.2	R	8.2	R
Ethylbenzene	4.2	R	[illegible]	[illegible]	7.2	R	7.2	R	8.2	R
o-Xylene	4.2	R	3.9	R	3.3	R	7.2	R	8.2	R
m,p-Xylene	4.2	R	[illegible]	[illegible]	7.2	R	7.2	R	8.2	R
Styrene	4.2	R	3.9	R	7.2	R	7.2	R	8.2	R
Bromoform	4.2	R	[illegible]	[illegible]	7.2	R	7.2	R	8.2	R
Isopropylbenzene	4.2	R	3.9	R	7.3	R	3.9	R	8.2	R
1,1,2,2-Tetrachloroethane	4.2	R	[illegible]	[illegible]	7.2	R	7.2	R	8.2	R
1,3-Dichlorobenzene	4.2	R	3.9	R	7.2	R	7.2	R	8.2	R
1,4-Dichlorobenzene	4.2	R	[illegible]	[illegible]	7.2	R	7.2	R	8.2	R
1,2-Dichlorobenzene	4.2	R	3.9	R	12	R	7 2	R	8 2	R
1,2-Dibromo-3-chloropropane	4.2	R	[illegible]	[illegible]	7.2	R	7.2	R	8.2	R
1,2,4-Trichlorobenzene	4 2	R	3.9	R	7.2	R	7.2	R	8.2	R
1,2,3-Trichlorobenzene	4.2	R	[illegible]	[illegible]	7.2	R	7.2	R	8.2	R

Analytical ResRlts (QRalified Data)

Case #. 35229 SDG E0001
Site . DUNAVAN OIL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0019		E0027		E0028		VBLKHI		VBLKHR	
Sampling Location :	S102		X114		X115					
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		Rg/Kg		Rg/Kg		Rg/Kg		Rg/Kg	
Date Sampled :	4/12/2006		4/12/2006		4/12/2006					
Time Sampled :										
%Moisture :	39		29		12		0		0	
pH :										
Dilution Factor :	1.0		1.0		1 0		1.0		1 0	
Volatile Compound	Result	Flag	ResRlt	Flag	ResRlt	Flag	ResRlt	Flag	ResRlt	Flag
Dichlorodifluoromethane	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
Chloromethane	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
Vinyl chloride	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
Bromomethane	6.8	R	5.6	R	4 3	R	5 0	R	5.0	R
Chloroethane	6.8	R	5.6	R	4.3	R	5 0	R	5.0	R
Trichlorofluoromethane	6.8	R	5.6	R	4.3	R	5 0	R	5 0	R
1,1-Dichloroethene	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
1,1,2-Trichloro-1,2,2-trifluoroethane	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
Acetone	22	R	10	R	8.6	R	10	R	10	R
Carbon Disulfide	6.8	R	5.6	R	4.3	R	5.0	R	5 0	R
Methyl acetate	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
Methylene chloride	6.8	R	5.6	R	1.7	R	5.0	R	2.2	R
trans-1,2-Dichloroethene	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
Methyl tert-butyl ether	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
1,1-Dichloroethane	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
cis-1,2-Dichloroethene	6.8	R	5.6	R	4.3	R	5.0	R	5 0	R
2-Butanone	14	R	11	R	8.6	R	10	R	10	R
Bromochloromethane	6.8	R	5.6	R	4.3	R	5.0	R	5 0	R
Chloroform	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
1,1,1-Trichloroethane	6.8	R	5.6	R	4.3	R	5 0	R	5 0	R
Cyclohexane	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
Carbon tetrachloride	6.8	R	5.6	R	4 3	R	5 0	R	5.0	R
Benzene	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
1,2-Dichloroethane	6.8	R	5 6	R	4.3	R	5.0	R	5.0	R
1,4-Dioxane	140	R	210	R	86	R	100	R	100	R
Trichloroethene	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
Methylcyclohexane	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
1,2-Dichloropropane	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
Bromodichloromethane	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
cis-1,3-Dichloropropene	6.8	R	2.4	R	4.3	R	5.0	R	5.0	R
4-Methyl-2-pentanone	14	R	11	R	8.6	R	10	R	10	R
Toluene	6.8	R	5.6	R	4 3	R	5.0	R	5.0	R
trans-1,3-Dichloropropene	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R

Analytical ResRlts (QRalified Data)

Case #: 35229 SDG : E0001
Site : DUNAVAN OIL
Lab. ENVSYS
Reviewer .
Date :

Sample Number :	E0019		E0027		E0028		VBLKHI		VBLKHR	
Sampling Location	S102		X114		X115					
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		Rg/Kg		Rg/Kg		Rg/Kg		Rg/Kg	
Date Sampled	4/12/2006		4/12/2006		4/12/2006					
Time Sampled										
%Moisture :	39		29		12		0		0	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	ResRlt	Flag	ResRlt	Flag	ResRlt	Flag	ResRlt	Flag
1,1,2-Trichloroethane	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
Tetrachloroethene	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
2-Hexanone	14	R	8.4	R	8.6	R	10	R	10	R
Dibromochloromethane	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
1,2-Dibromoethane	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
Chlorobenzene	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
Ethylbenzene	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
o-Xylene	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
m,p-Xylene	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
Styrene	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
Bromoform	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
Isopropylbenzene	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
1,1,2,2-Tetrachloroethane	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
1,3-Dichlorobenzene	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
1,4-Dichlorobenzene	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
1,2-Dichlorobenzene	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
1,2-Dibromo-3-chloropropane	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
1,2,4-Trichlorobenzene	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R
1,2,3-Trichlorobenzene	6.8	R	5.6	R	4.3	R	5.0	R	5.0	R

Analytical Results (Qualified Data)

Case #: 35229 SDG : E0001
Site : DUNAVAN OIL
Lab. : ENVSYS
Reviewer :
Date

Number of Soil Samples : 20
Number of Water Samples : 0
Number of Sediment Samples : 0

Sample Number :	E0001		E0002		E0003		E0004		E0005	
Sampling Location :	X101		X102		X103		X104		X105	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/11/2006		4/11/2006		4/11/2006		4/11/2006		4/11/2006	
Time Sampled :										
%Moisture :	18		16		18		29		13	
pH :	6.9		9.1		7.4		7.3		8.9	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	410	U	400	U	410	U	480	U	390	U
Phenol	410	U	400	U	410	U	480	U	390	U
Bis(2-Chloroethyl)ether	410	U	400	U	410	U	480	U	390	U
2-Chlorophenol	410	U	400	U	410	U	480	U	390	U
2-Methylphenol	410	U	400	U	410	U	480	U	390	U
2,2'-Oxybis(1-chloropropane)	410	U	400	U	410	U	480	U	390	U
Acetophenone	410	U	400	U	410	U	480	U	390	U
4-Methylphenol	410	U	400	U	410	U	480	U	390	U
N-Nitroso-di-n-propylamine	410	U	400	U	410	U	480	U	390	U
Hexachloroethane	410	U	400	U	410	U	480	U	390	U
Nitrobenzene	410	U	400	U	410	U	480	U	390	U
Isophorone	410	U	400	U	410	U	480	U	390	U
2-Nitrophenol	410	U	400	U	410	U	480	U	390	U
2,4-Dimethylphenol	410	U	400	U	410	U	480	U	390	U
Bis(2-chloroethoxy)methane	410	U	400	U	410	U	480	U	390	U
2,4-Dichlorophenol	410	U	400	U	410	U	480	U	390	U
Naphthalene	410	U	400	U	410	U	480	U	390	U
4-Chloroaniline	410	U	400	U	410	U	480	R	390	U
Hexachlorobutadiene	410	U	400	U	410	U	480	U	390	U
Caprolactam	410	U	400	U	410	U	480	U	390	U
4-Chloro-3-methylphenol	410	U	400	U	410	U	480	U	390	U
2-Methylnaphthalene	410	U	400	U	410	U	480	U	390	U
Hexachlorocyclopentadiene	410	U	400	U	410	U	480	R	390	U
2,4,6-Trichlorophenol	410	U	400	U	410	U	480	U	390	U
2,4,5-Trichlorophenol	410	U	400	U	410	U	480	U	390	U
1,1'-Biphenyl	410	U	400	U	410	U	480	U	390	U
2-Chloronaphthalene	410	U	400	U	410	U	480	U	390	U
2-Nitroaniline	800	U	790	U	800	U	930	U	760	U
Dimethylphthalate	410	U	400	U	410	U	480	U	390	U
2,6-Dinitrotoluene	410	U	400	U	410	U	480	U	390	U
Acenaphthylene	410	U	400	U	410	U	480	U	390	U
3-Nitroaniline	800	U	790	U	800	U	930	U	760	U
Acenaphthene	410	U	400	U	410	U	480	U	390	U

Analytical Results (Qualified Data)

Case #. 35229 SDG E0001
Site DUNAVAN OIL
Lab ENVSYS
Reviewer
Date

Sample Number	E0001		E0002		E0003		E0004		E0005	
Sampling Location	X101		X102		X103		X104		X105	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	4/11/2006		4/11/2006		4/11/2006		4/11/2006		4/11/2006	
Time Sampled										
%Moisture	18		16		18		29		13	
pH	6.9		9.1		7.4		7.3		8.9	
Dilution Factor	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	800	U	790	U	800	U	930	U	760	U
4-Nitrophenol	800	U	790	U	800	U	930	U	760	U
Dibenzofuran	410	U	400	U	410	U	480	U	390	U
2,4-Dinitrotoluene	410	U	400	U	410	U	480	U	390	U
Diethylphthalate	410	U	400	U	410	U	480	U	390	U
Fluorene	410	U	400	U	410	U	480	U	390	U
4-Chlorophenyl-phenylether	410	U	400	U	410	U	480	U	390	U
4-Nitroaniline	800	U	790	U	800	U	930	U	760	U
4,6-Dinitro-2-methylphenol	800	U	790	U	800	U	930	U	760	U
N-Nitrosodiphenylamine	410	U	400	U	410	U	480	U	390	U
1,2,4,5-Tetrachlorobenzene	410	U	400	U	410	U	480	U	390	U
4-Bromophenyl-phenylether	410	U	400	U	410	U	480	U	390	U
Hexachlorobenzene	410	U	400	U	410	U	480	U	390	U
Atrazine	410	U	400	U	410	U	480	U	390	U
Pentachlorophenol	800	R	790	R	800	R	930	R	760	R
Phenanthrene	410	U	400	U	410	U	480	U	390	U
Anthracene	410	U	400	U	410	U	480	U	390	U
Carbazole	410	U	400	U	410	U	480	U	390	U
Di-n-butylphthalate	410	U	400	U	410	U	480	U	390	U
Fluoranthene	410	U	400	U	410	U	480	U	390	U
Pyrene	410	U	400	U	410	U	480	U	390	U
Butylbenzylphthalate	410	U	400	U	410	U	480	U	390	U
3,3'-Dichlorobenzidine	410	U	400	U	410	U	480	R	390	U
Benzo(a)anthracene	410	U	400	U	410	U	480	U	390	U
Chrysene	410	U	400	U	410	U	480	U	390	U
Bis(2-ethylhexyl)phthalate	410	U	400	U	150	J	480	U	89	J
Di-n-octylphthalate	410	U	400	U	410	U	480	U	390	U
Benzo(b)fluoranthene	410	UJ	400	U	410	U	480	U	390	U
Benzo(k)fluoranthene	410	UJ	400	U	410	U	480	U	390	U
Benzo(a)pyrene	410	UJ	400	U	410	U	480	U	390	U
Indeno(1,2,3-cd)pyrene	410	UJ	400	U	410	U	480	U	390	U
Dibenzo(a,h)anthracene	410	UJ	400	U	410	U	480	U	390	U
Benzo(g,h,i)perylene	410	UJ	400	U	410	U	480	U	390	U
2,3,4,6-Tetrachlorophenol	410	U	400	U	410	U	480	U	390	U

Analytical Results (Qualified Data)

Case # 35229 SDG : E0001
Site : DUNAVAN OIL
Lab. : ENVSYS
Reviewer .
Date

Sample Number	E0006		E0007		E0008		E0009		E0014	
Sampling Location :	X106		X107		X108		X109		X110	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/11/2006		4/11/2006		4/11/2006		4/11/2006		4/5/2006	
Time Sampled :										
%Moisture :	27		29		13		28		15	
pH :	9.0		7.7		8.5				7.1	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	470	U	480	U	390	U	470	U	400	U
Phenol	470	U	480	U	390	U	470	U	400	U
Bis(2-Chloroethyl)ether	470	U	480	U	390	U	470	U	400	U
2-Chlorophenol	470	U	480	U	390	U	470	U	400	U
2-Methylphenol	470	U	480	U	390	U	470	U	400	U
2,2'-Oxybis(1-chloropropane)	470	U	480	U	390	U	470	U	400	U
Acetophenone	46	J	480	U	390	U	470	U	46	J
4-Methylphenol	470	U	480	U	390	U	470	U	400	U
N-Nitroso-di-n-propylamine	470	U	480	U	390	U	470	U	400	U
Hexachloroethane	470	U	480	U	390	U	470	U	400	U
Nitrobenzene	470	U	480	U	390	U	470	U	400	U
Isophorone	470	U	480	U	390	U	470	U	400	U
2-Nitrophenol	470	U	480	U	390	U	470	U	400	U
2,4-Dimethylphenol	470	U	480	U	390	U	470	U	400	U
Bis(2-chloroethoxy)methane	470	U	480	U	390	U	470	U	400	U
2,4-Dichlorophenol	470	U	480	U	390	U	470	U	400	U
Naphthalene	470	U	480	U	390	U	470	U	400	U
4-Chloroaniline	470	U	480	U	390	U	470	U	400	U
Hexachlorobutadiene	470	U	480	U	390	U	470	U	400	U
Caprolactam	470	U	480	U	390	U	470	U	400	U
4-Chloro-3-methylphenol	470	U	480	U	390	U	470	U	400	U
2-Methylnaphthalene	470	U	480	U	390	U	470	U	400	U
Hexachlorocyclopentadiene	470	U	480	U	390	U	470	U	400	U
2,4,6-Trichlorophenol	470	U	480	U	390	U	470	U	400	U
2,4,5-Trichlorophenol	470	U	480	U	390	U	470	U	400	U
1,1'-Biphenyl	470	U	480	U	390	U	470	U	400	U
2-Chloronaphthalene	470	U	480	U	390	U	470	U	400	U
2-Nitroaniline	900	U	930	U	760	U	920	U	780	U
Dimethylphthalate	470	U	480	U	390	U	470	U	400	U
2,6-Dinitrotoluene	470	U	480	U	390	U	470	U	400	U
Acenaphthylene	470	U	480	U	390	U	470	U	400	U
3-Nitroaniline	900	U	930	U	760	U	920	U	780	U
Acenaphthene	470	U	480	U	390	U	470	U	400	U

Analytical Results (Qualified Data)

Case #: 35229 SDG : E0001
Site : DUNAVAN OIL
Lab : ENVSYS
Reviewer
Date :

Sample Number :	E0006		E0007		E0008		E0009		E0014	
Sampling Location :	X106		X107		X108		X109		X110	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	4/11/2006		4/11/2006		4/11/2006		4/11/2006		4/5/2006	
Time Sampled .										
%Moisture :	27		29		13		28		15	
pH :	9.0		7.7		8.5				7.1	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	900	U	930	U	760	U	920	UJ	780	U
4-Nitrophenol	900	U	930	U	760	U	920	U	780	U
Dibenzofuran	470	U	480	U	390	U	470	U	400	U
2,4-Dinitrotoluene	470	U	480	U	390	U	470	U	400	U
Diethylphthalate	470	U	480	U	390	U	470	U	400	U
Fluorene	470	U	480	U	390	U	470	U	400	U
4-Chlorophenyl-phenylether	470	U	480	U	390	U	470	U	400	U
4-Nitroaniline	900	U	930	U	760	U	920	U	780	U
4,6-Dinitro-2-methylphenol	900	U	930	U	760	U	920	U	780	U
N-Nitrosodiphenylamine	470	U	480	U	390	U	470	U	400	U
1,2,4,5-Tetrachlorobenzene	470	U	480	U	390	U	470	U	400	U
4-Bromophenyl-phenylether	470	U	480	U	390	U	470	U	400	U
Hexachlorobenzene	470	U	480	U	390	U	470	U	400	U
Atrazine	470	U	480	U	390	U	470	U	400	U
Pentachlorophenol	900	R	930	R	760	R	920	R	780	R
Phenanthrene	470	U	480	U	390	U	470	U	400	U
Anthracene	470	U	480	U	390	U	470	U	400	U
Carbazole	470	U	480	U	390	U	470	U	400	U
Di-n-butylphthalate	470	U	480	U	390	U	470	U	400	UJ
Fluoranthene	470	U	480	U	390	U	470	U	400	UJ
Pyrene	470	U	480	U	390	U	470	U	400	UJ
Butylbenzylphthalate	470	U	480	U	390	U	470	U	400	U
3,3'-Dichlorobenzidine	470	U	480	U	390	U	470	UJ	400	UJ
Benzo(a)anthracene	470	U	480	U	390	U	470	U	400	UJ
Chrysene	470	U	480	U	390	U	470	U	400	UJ
Bis(2-ethylhexyl)phthalate	470	U	480	U	100	J	470	U	400	U
Di-n-octylphthalate	470	U	480	U	390	U	470	U	400	U
Benzo(b)fluoranthene	470	U	480	U	390	U	470	U	400	UJ
Benzo(k)fluoranthene	470	U	480	U	390	U	470	U	400	UJ
Benzo(a)pyrene	470	U	480	U	390	U	470	U	400	UJ
Indeno(1,2,3-cd)pyrene	470	U	480	U	390	U	470	U	400	UJ
Dibenzo(a,h)anthracene	470	U	480	U	390	U	470	U	400	UJ
Benzo(g,h,i)perylene	470	U	480	U	390	U	470	U	400	UJ
2,3,4,6-Tetrachlorophenol	470	U	480	U	390	U	470	U	400	U

Analytical Results (Qualified Data)

Case # 35229 SDG : E0001
Site : DUNAVAN OIL
Lab. : ENVSYS
Reviewer
Date

Sample Number	E0015		E0016		E0017		E0018		E0019	
Sampling Location :	X111		X112		X113		S101		S102	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/11/2006		4/12/2006		4/12/2006		4/12/2006		4/12/2006	
Time Sampled :										
%Moisture :	12		8		37		49		39	
pH :	8.2		8.7		7.8		7.8		7.6	
Dilution Factor :	1.0		1.0		5.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	390	U	370	U	2700	U	150	J	170	J
Phenol	390	U	370	U	2700	U	77	J	68	J
Bis(2-Chloroethyl)ether	390	U	370	U	2700	U	670	U	560	U
2-Chlorophenol	390	U	370	U	2700	U	670	U	560	U
2-Methylphenol	390	U	370	U	2700	U	670	U	560	U
2,2'-Oxybis(1-chloropropane)	390	U	370	U	2700	U	670	U	560	U
Acetophenone	45	J	370	U	2700	U	270	J	420	J
4-Methylphenol	390	U	370	U	2700	U	670	U	560	U
N-Nitroso-di-n-propylamine	390	U	370	U	2700	U	670	U	560	U
Hexachloroethane	390	U	370	U	2700	U	670	U	560	U
Nitrobenzene	390	U	370	U	2700	U	670	U	560	U
Isophorone	390	U	370	U	2700	U	670	U	560	U
2-Nitrophenol	390	U	370	U	2700	U	670	U	560	U
2,4-Dimethylphenol	390	U	370	U	2700	U	670	U	560	U
Bis(2-chloroethoxy)methane	390	U	370	U	2700	U	670	U	560	U
2,4-Dichlorophenol	390	U	370	U	2700	U	670	U	560	U
Naphthalene	390	U	370	U	290	J	670	U	170	J
4-Chloroaniline	390	R	370	U	2700	U	670	R	560	U
Hexachlorobutadiene	390	U	370	U	2700	U	670	U	560	U
Caprolactam	390	U	370	U	2700	U	670	U	560	U
4-Chloro-3-methylphenol	390	U	370	U	2700	U	670	U	560	U
2-Methylnaphthalene	390	U	370	U	890	J	670	U	660	
Hexachlorocyclopentadiene	390	R	370	U	2700	U	670	R	560	U
2,4,6-Trichlorophenol	390	U	370	U	2700	U	670	U	560	U
2,4,5-Trichlorophenol	390	U	370	U	2700	U	670	U	560	U
1,1'-Biphenyl	390	U	370	U	2700	U	670	U	560	U
2-Chloronaphthalene	390	U	370	U	2700	U	670	U	560	U
2-Nitroaniline	750	U	720	U	5200	U	1300	U	1100	U
Dimethylphthalate	390	U	370	U	2700	U	670	U	560	U
2,6-Dinitrotoluene	390	U	370	U	2700	U	670	U	560	U
Acenaphthylene	390	U	370	U	2700	U	670	U	560	U
3-Nitroaniline	750	U	720	U	5200	U	1300	U	1100	U
Acenaphthene	390	U	370	U	2700	U	670	U	560	U

Analytical Results (Qualified Data)

Case #: 35229 SDG : E0001
Site : DUNAVAN OIL
Lab : ENVSYS
Reviewer :
Date :

Sample Number :	E0015		E0016		E0017		E0018		E0019	
Sampling Location :	X111		X112		X113		S101		S102	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/11/2006		4/12/2006		4/12/2006		4/12/2006		4/12/2006	
Time Sampled :										
%Moisture :	12		8		37		49		39	
pH :	8.2		8.7		7.8		7.8		7.6	
Dilution Factor :	1.0		1.0		5.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	750	U	720	U	5200	U	1300	U	1100	U
4-Nitrophenol	750	U	720	U	5200	U	1300	U	1100	U
Dibenzofuran	390	U	370	U	2700	U	670	U	160	J
2,4-Dinitrotoluene	390	U	370	U	2700	U	670	U	560	U
Diethylphthalate	390	U	370	U	2700	U	670	U	560	U
Fluorene	390	U	370	U	330	J	670	U	71	J
4-Chlorophenyl-phenylether	390	U	370	U	2700	U	670	U	560	U
4-Nitroaniline	750	U	720	U	5200	U	1300	U	1100	U
4,6-Dinitro-2-methylphenol	750	U	720	U	5200	U	1300	U	1100	U
N-Nitrosodiphenylamine	390	U	370	U	2700	U	670	U	560	U
1,2,4,5-Tetrachlorobenzene	390	U	370	U	2700	U	670	U	560	U
4-Bromophenyl-phenylether	390	U	370	U	2700	U	670	U	560	U
Hexachlorobenzene	390	U	370	U	2700	U	670	U	560	U
Atrazine	390	U	370	U	2700	U	670	U	560	U
Pentachlorophenol	750	R	720	U	5200	R	1300	R	1100	R
Phenanthrene	390	U	370	U	870	J	670	U	500	
Anthracene	390	U	370	U	2700	U	670	U	80	J
Carbazole	390	U	370	U	2700	U	670	U	560	U
Di-n-butylphthalate	390	U	370	U	2700	U	670	U	560	U
Fluoranthene	390	U	370	U	800	J	670	U	100	J
Pyrene	390	U	370	U	620	J	670	U	88	J
Butylbenzylphthalate	390	U	370	U	2700	U	670	U	560	U
3,3'-Dichlorobenzidine	390	R	370	U	2700	U	670	R	560	U
Benzo(a)anthracene	390	U	370	U	420	J	72	J	560	U
Chrysene	390	U	370	U	480	J	670	U	560	U
Bis(2-ethylhexyl)phthalate	390	U	370	U	750	J	670	U	560	U
Di-n-octylphthalate	390	U	370	U	2700	U	670	U	560	U
Benzo(b)fluoranthene	390	U	370	U	700	J	670	U	560	U
Benzo(k)fluoranthene	390	U	370	U	690	J	670	U	560	U
Benzo(a)pyrene	390	U	370	U	680	J	670	U	560	U
Indeno(1,2,3-cd)pyrene	390	U	370	U	2700	U	670	U	560	U
Dibenzo(a,h)anthracene	390	U	370	U	2700	U	670	U	560	U
Benzo(g,h,i)perylene	390	U	370	U	2700	U	670	U	560	U
2,3,4,6-Tetrachlorophenol	390	U	370	U	2700	U	670	U	560	U

Analytical Results (Qualified Data)

Case #: 35229 SDG : E0001
Site : DUNAVAN OIL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0027		E0028		E0029		E0030		E0031	
Sampling Location :	X114		X115		S106		S107		S108	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/12/2006		4/12/2006		4/12/2006		4/12/2006		4/12/2006	
Time Sampled :										
%Moisture :	29		12		41		48		40	
pH :	8.3		8.5		6.8		7.8		7.5	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	480	U	390	U	580	U	420		570	U
Phenol	480	U	390	U	580	U	650	U	570	U
Bis(2-Chloroethyl)ether	480	U	390	U	580	U	650	U	570	U
2-Chlorophenol	480	U	390	U	580	U	650	U	570	U
2-Methylphenol	480	U	390	U	580	U	650	U	570	U
2,2'-Oxybis(1-chloropropane)	480	U	390	U	580	U	650	U	570	U
Acetophenone	480	U	390	U	580	U	610		70	J
4-Methylphenol	480	U	390	U	580	U	650	U	570	U
N-Nitroso-di-n-propylamine	480	U	390	U	580	U	650	U	570	U
Hexachloroethane	480	U	390	U	580	U	650	U	570	U
Nitrobenzene	480	U	390	U	580	U	650	U	570	U
Isophorone	480	U	390	U	580	U	650	U	570	U
2-Nitrophenol	480	U	390	U	580	U	650	U	570	U
2,4-Dimethylphenol	480	U	390	U	580	U	650	U	570	U
Bis(2-chloroethoxy)methane	480	U	390	U	580	U	650	U	570	U
2,4-Dichlorophenol	480	U	390	U	580	U	650	U	570	U
Naphthalene	480	U	390	U	580	U	1400		120	J
4-Chloroaniline	480	U	390	U	580	R	650	U	570	R
Hexachlorobutadiene	480	U	390	U	580	U	650	U	570	U
Caprolactam	480	U	390	U	580	U	650	U	570	U
4-Chloro-3-methylphenol	480	U	390	U	580	U	650	U	570	U
2-Methylnaphthalene	480	U	390	U	580	U	4700		240	J
Hexachlorocyclopentadiene	480	U	390	U	580	R	650	U	570	R
2,4,6-Trichlorophenol	480	U	390	U	580	U	650	U	570	U
2,4,5-Trichlorophenol	480	U	390	U	580	U	650	U	570	U
1,1'-Biphenyl	480	U	390	U	580	U	230	J	570	U
2-Chloronaphthalene	480	U	390	U	580	U	650	U	570	U
2-Nitroaniline	930	U	750	U	1100	U	1300	U	1100	U
Dimethylphthalate	480	U	390	U	580	U	650	U	570	U
2,6-Dinitrotoluene	480	U	390	U	580	U	650	U	570	U
Acenaphthylene	480	U	390	U	580	U	440	J	150	J
3-Nitroaniline	930	U	750	U	1100	U	1300	U	1100	U
Acenaphthene	480	U	390	U	580	U	280	J	570	U

Analytical Results (Qualified Data)

Case # 35229 SDG . E0001
Site : DUNAVAN OIL
Lab : ENVSYS
Reviewer .
Date :

Sample Number :	E0027		E0028		E0029		E0030		E0031	
Sampling Location .	X114		X115		S106		S107		S108	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/12/2006		4/12/2006		4/12/2006		4/12/2006		4/12/2006	
Time Sampled :										
%Moisture :	29		12		41		48		40	
pH :	8.3		8.5		6.8		7.8		7.5	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	930	U	750	U	1100	U	1300	U	1100	U
4-Nitrophenol	930	U	750	U	1100	U	1300	U	1100	U
Dibenzofuran	480	U	390	U	580	U	1400		120	J
2,4-Dinitrotoluene	480	U	390	U	580	U	650	U	570	U
Diethylphthalate	480	U	390	U	580	U	650	U	570	U
Fluorene	480	U	390	U	580	U	590		570	U
4-Chlorophenyl-phenylether	480	U	390	U	580	U	650	U	570	U
4-Nitroaniline	930	U	750	U	1100	U	1300	U	1100	U
4,6-Dinitro-2-methylphenol	930	U	750	U	1100	U	1300	U	1100	U
N-Nitrosodiphenylamine	480	U	390	U	580	U	650	U	570	U
1,2,4,5-Tetrachlorobenzene	480	U	390	U	580	U	650	U	570	U
4-Bromophenyl-phenylether	480	U	390	U	580	U	650	U	570	U
Hexachlorobenzene	480	U	390	U	580	U	650	U	570	U
Atrazine	480	U	390	U	580	U	650	U	570	U
Pentachlorophenol	930	R	750	R	1100	R	1300	R	1100	R
Phenanthrene	480	U	390	U	500		8800		660	
Anthracene	480	U	390	U	80	J	1500		170	J
Carbazole	480	U	390	U	580	U	310	J	66	J
Di-n-butylphthalate	480	U	390	U	580	U	595	J	570	U
Fluoranthene	480	U	390	U	1300		13000	J	2500	
Pyrene	480	U	38	J	820		8000	J	1600	
Butylbenzylphthalate	480	U	390	U	580	U	650	U	570	U
3,3'-Dichlorobenzidine	480	UJ	390	UJ	580	R	650	UJ	570	R
Benzo(a)anthracene	480	U	390	U	630		6400	J	1400	
Chrysene	480	U	390	U	620		5700	J	2000	
Bis(2-ethylhexyl)phthalate	480	U	110	J	580	U	650	U	570	U
Di-n-octylphthalate	480	U	390	U	580	U	650	U	570	U
Benzo(b)fluoranthene	480	U	390	U	470	J	3700		2300	
Benzo(k)fluoranthene	480	U	390	U	460	J	3500		2000	
Benzo(a)pyrene	480	U	390	U	450		2900		1600	
Indeno(1,2,3-cd)pyrene	480	U	390	U	240	J	1900		1200	
Dibenzo(a,h)anthracene	480	U	390	U	580	U	760		360	
Benzo(g,h,i)perylene	480	U	390	U	580	U	340		240	J
2,3,4,6-Tetrachlorophenol	480	U	390	U	580	U	650	U	570	U

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 5/25/06

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: Dunavan Oil (IL)

CASE NUMBER: 25229 SDG NUMBER: E0001

Number and Type of Samples: 20 soil samples

Sample Numbers: E0001-9; E0014-19; E0027-31

Laboratory: Envirsystems, Inc. Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Contract Laboratory Program

Sample Delivery Group (SDG)
Cover Sheet

SDG Number E0001

Laboratory Name **ENVIROSYSTEMS, INC** Laboratory Code **ENVSYS**

Contract No. **EP-W-05-033** Case No. 35229

Analysis Price _____ SDG Turnaround **21 DAYS**

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E0001	7) E0007	13) E0017	19) E0030
2) E0002	8) E0008	14) E0018	20) E0031
3) E0003	9) E0009	15) E0019	21)
4) E0004	10) E0014	16) E0027	22) PL 4/18/06
5) E0005	11) E0015	17) E0028	23)
6) E0006	12) E0016	18) E0029	24)

E0001
First Sample in SDG

E0031
Last Sample in SDG

4/12/06
First Sample Receipt Date

4/14/06
Last Sample Receipt Date

*Note: There are a maximum of 20 **field** samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).*

Signature Paul Lerch Date 4/18/06

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229
DAS No:
SDG No: E0-01

L

Date Shipped:	4/13/2006
Carrier Name:	UPS
Airbill:	1Z6215892210024179
Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Tony Ewler	4/13/06 12:00	Barbara Crook	4/14/06 10:00
2			
3			
4			

Sampler Signature: Lance Range

For Lab Use Only

Lab Contract No: EPW05033
Unit Price:
Transfer To:
Lab Contract No: 4/14/06
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0001	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	304153 (1)	X101	S: 4/11/2006	8:45	ME0001	
E0002	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	304156 (1)	X102	S: 4/11/2006	10:00	ME0002	
E0003	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	304161 (1)	X103	S: 4/11/2006	10:50	ME0003	
E0004	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	304165 (1)	X104	S: 4/11/2006	11:35	ME0004	
E0005	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	304169 (1)	X105	S: 4/11/2006	12:15	ME0005	
E0006	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	304173 (1)	X106	S: 4/11/2006	13:10	ME0006	
E0007	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	304177 (1)	X107	S: 4/11/2006	14:00	ME0007	
E0008	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	304181 (1)	X108	S: 4/11/2006	15:05	ME0008	
E0009	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	304185 (1)	X109	S: 4/11/2006	15:40	ME0009	
E0014	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	263365 (1)	X110	S: 4/5/2006	8:50	ME0014	

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E0016, E0024, E0038		3°C	82817-82870
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓

CLP ARO = CLP TCL PCB (Aroclors), CLP PEST = CLP TCL Pesticide, CLP SVOA = CLP TCL Semivolatile, CLP SVSIM = CLP TCL Semivolatiles-SIM, CLP TVOA = CLP TCL Trace Volatiles, CLP TVSIM = CLP TCL Trace Volatiles-SIM, VOA = CLP TCL Volatiles

TR Number: 5-314975591-041306-0002

LABORATORY COPY

PR provides pr[illegible]nary results. Requests for preliminary results will increase analytical costs.
Send Copy to [illegible]ple Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center [illegible]antilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

F2V5

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229
DAS No:
SDG No: E0001

L

Date Shipped:	4/11/2006
Carrier Name:	UPS
Airbill:	1Z6215892210024099
Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330

Chain of Custody Record

Sampler Signature: Lance L Range

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	4/11/06 4:30pm	Shelvia Crook	4/12/06 10:00
2			
3			
4			

For Lab Use Only

Lab Contract No: EPW05033
Unit Price:
Transfer To: 10C 4/12/06
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0001	Soil/Sediment/ Lance Range	L/G	VOA (21)	304154 (1)	X101	S: 4/11/2006 8:45	ME0001	
E0002	Soil/Sediment/ Lance Range	L/G	VOA (21)	304157 (1)	X102	S: 4/11/2006 10:00	ME0002	
E0003	Soil/Sediment/ Lance Range	L/G	VOA (21)	304162 (1)	X103	S: 4/11/2006 10:50	ME0003	
E0004	Soil/Sediment/ Lance Range	L/G	VOA (21)	304166 (1)	X104	S: 4/11/2006 11:35	ME0004	
E0005	Soil/Sediment/ Lance Range	L/G	VOA (21)	304170 (1)	X105	S: 4/11/2006 12:15	ME0005	
E0006	Soil/Sediment/ Lance Range	L/G	VOA (21)	304174 (1)	X106	S: 4/11/2006 13:10	ME0006	
E0007	Soil/Sediment/ Lance Range	L/G	VOA (21)	304178 (1)	X107	S: 4/11/2006 14:00	ME0007	
E0008	Soil/Sediment/ Lance Range	L/G	VOA (21)	304182 (1)	X108	S: 4/11/2006 15:05	ME0008	
E0009	Soil/Sediment/ Lance Range	L/G	VOA (21)	304186 (1)	X109	S: 4/11/2006 15:40	ME0009	

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3°C	Chain of Custody Seal Number: 82812
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? — Shipment Iced? —

VOA = CLP TCL Volatiles

TR Number: 5-314975591-041106-0002

3°C cooler

LABORATORY COPY

PR provides pre ary results. Requests for preliminary results will increase analytical costs.
Send Copy to: ple Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center D ntilly, VA 20151-3819; Phone 703/818-4200; Fax

F2V5.1

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229
DAS No:
SDG No: E0001/F0010 L

Date Shipped:	4/13/2006
Carrier Name:	UPS
Airbill:	1Z6215892210024179
Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330

Chain of Custody Record

Sampler Signature: Lance Range

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	4/13/06 1200	Barbara Crook	4/14/06 1000
2			
3			
4			

For Lab Use Only

Lab Contract No: EPW05033
Unit Price:
Transfer To: CL 4/14/06
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0015	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	263367 (1)	X111	S: 4/5/2006	9:50	ME0015	
E0016	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	263371 (1)	X112	S: 4/12/2006	9:50	ME0016	
E0017	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	263375 (1)	X113	S: 4/12/2006	10:40	ME0017	
E0018	Sediment/ Lance Range	L/G	CLP SVOA (21)	263381 (1)	S101	S: 4/12/2006	12:30	ME0018	
E0019	Sediment/ Lance Range	L/G	CLP SVOA (21)	263383 (1)	S102	S: 4/12/2006	12:20	ME0019	
E0022	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263290 (HCL), 263291 (HCL), 263292 (HCL), 263293 (HCL), 263294 (HCL), 263295, 263296 (12)	Field Blank	S: 4/12/2006	14:30	ME0022	
E0023	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263968 (HCL), 263969 (HCL), 263970 (HCL), 263971 (HCL), 263972 (HCL), 263973, 263974 (12)	G104	S: 4/12/2006	14:20	ME0023	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E0016, E0024, E0038		3°C	82817- 82820

Analysis Key: Concentration: L = Low, M = Low/Medium, H = High Type/Designate: Composite = C, Grab = G Custody Seal Intact? ✓ Shipment Iced? ✓

CLP ARO = CLP TCL PCB (Aroclors), CLP PEST = CLP TCL Pesticide, CLP SVOA = CLP TCL Semivolatile, CLP SVSIM = CLP TCL Semivolatiles-SIM, CLP TVOA = CLP TCL Trace Volatiles, CLP TVSIM = CLP TCL Trace Volatiles-SIM, VOA = CLP TCL Volatiles

TR Number: 5-314975591-041306-0002

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr, Chantilly, VA 20151-3819; Phone 703/818-4200, Fax 703/818-4600

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229 PV 4/14/06
DAS No: E0010
SDG No: E00D1 / ~~E00H~~

Date Shipped:	4/12/2006	**Chain of Custody Record**		Sampler Signature: Lance Range	**For Lab Use Only**
Carrier Name:	UPS	Relinquished By	(Date / Time)	Received By (Date / Time)	Lab Contract No: EPW05033
Airbill:	1Z6215892210024124	1 Terry Wirth	4/12/06 1735	Barbara Crook 4/13/06 10:30	Unit Price:
Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330	2			Transfer To: BC 4/13/06
		3			Lab Contract No:
		4			Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0010	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	304188 (HCL), 304189 (HCL), 304190 (HCL), 304191 (HCL), 304192 (HCL), 304193, 304194 (12)	G101	S: 4/11/2006 16:45	ME0010	
E0011	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263353 (HCL), 263354 (HCL), 263355 (HCL), 263356 (HCL), 263357 (HCL), 263358, 263359 (12)	G102	S: 4/11/2006 17:25	ME0011	
E0013	Potable Well/ Lance Range	L/G	CLP TVOA (21), CLP TVSIM (21)	304198 (HCL), 304199 (HCL) (4)	Trip Blank 1	S: 4/5/2006 10:00		
E0014	Soil/Sediment/ Lance Range	L/G	VOA (21)	304200 (1)	X110	S: 4/5/2006 8:50	ME0014	
E0015	Soil/Sediment/ Lance Range	L/G	VOA (21)	263368 (1)	X111	S: 4/5/2006 9:50	ME0015	
E0016	Soil/Sediment/ Lance Range	L/G	VOA (21)	263372 (1)	X112	S: 4/12/2006 9:50	ME0016	
E0017	Soil/Sediment/ Lance Range	L/G	VOA (21)	263376 (1)	X113	S: 4/12/2006 10:40	ME0017	
E0018	Sediment/ Lance Range	L/G	VOA (21)	263379, 263380 (2)	S101	S: 4/12/2006 12:30	ME0018	

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: E0014, E0016, E0020	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3°C	Chain of Custody Seal Number: 82813- 82815
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓

CLP ARO = CLP TCL PCB (Aroclors), CLP PEST = CLP TCL Pesticide, CLP SVOA = CLP TCL Semivolatile, CLP SVSIM = CLP TCL Semivolatiles-SIM, CLP TVOA = CLP TCL Trace Volatiles, CLP TVSIM = CLP TCL Trace Volatiles-SIM, VOA = CLP TCL Volatiles

TR Number: 5-314975591-041206-0003

LABORATORY COPY

PR provides pre' ary results. Requests for preliminary results will increase analytical costs.
Send Copy to: ble Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr ntilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

F2V5.1

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229
DAS No: E0010 ~~E0018~~
SDG No: E0001 ~~E0014~~

Date Shipped:	4/12/2006
Carrier Name:	UPS
Airbill:	1Z6215892210024124
Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330

Chain of Custody Record

Sampler Signature: Lance Range

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Lance Range	4/12/06 1735	Barbara Crook	4/13/06 10:30
2			
3			
4			

For Lab Use Only

Lab Contract No: EPW05033
Unit Price:
Transfer To: 4/13/06
Lab Contract No: BC
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0019	Sediment/ Lance Range	L/G	VOA (21)	263384, 263385 (2)	S102	S: 4/12/2006 12:20	ME0019	
E0020	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263275, 263276, 263277, 263278, 263279, 263280, 263386 (HCL), 263387 (HCL), 263388 (HCL), 263389 (HCL), 263390 (HCL), 263391 (HCL), 263392 (HCL), 263393 (HCL), 263394 (HCL), 263395 (HCL), 263396 (HCL), 263397 (HCL), 263398 (HCL), 263399 (HCL), 263400 (HCL) (36)	G103	S: 4/12/2006 12:40	ME0020	
E0027	Soil/Sediment/ Lance Range	L/G	VOA (21)	264000 (1)	X114	S: 4/12/2006 13:55	ME0027	
E0028	Soil/Sediment/ Lance Range	L/G	VOA (21)	263454 (1)	X115	S: 4/12/2006 16:55	ME0028	

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E0014, E0016, E0020		3°C	82813 - 82815

Analysis Key: Concentration: L = Low, M = Low/Medium, H = High Type/Designate: Composite = C, Grab = G Custody Seal Intact? ✓ Shipment Iced? ✓

CLP ARO = CLP TCL PCB (Aroclors), CLP PEST = CLP TCL Pesticide, CLP SVOA = CLP TCL Semivolatile, CLP SVSIM = CLP TCL Semivolatiles-SIM, CLP TVOA = CLP TCL Trace Volatiles, CLP TVSIM = CLP TCL Trace Volatiles-SIM, VOA = CLP TCL Volatiles

TR Number: 5-314975591-041206-0003

LABORATORY COPY

PR provides pr ry results. Requests for preliminary results will increase analytical costs.
Send Copy to: ble Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr ntilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229
DAS No:
SDG No: E0001/E0010

Date Shipped: 4/13/2006	Chain of Custody Record	Sampler Signature: Lance Range	For Lab Use Only
Carrier Name: UPS	Relinquished By (Date / Time)	Received By (Date / Time)	Lab Contract No: EPW05033
Airbill: 1Z6215892210024179	1 [illegible] 4/13/06 1200	Barbara Crook 4/14/06 10:00	Unit Price:
Shipped to: Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330	2		Transfer To: PL
	3		Lab Contract No: 4/14/06
	4		Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0024	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263978 (HCL), 263979 (HCL), 263980 (HCL), 263981 (HCL), 263982 (HCL), 263983, 263984 (12)	G189	S: 4/12/2006 14:20	ME0024	5-263983 BROKEN
E0025	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263988 (HCL), 263989 (HCL), 263990 (HCL), 263991 (HCL), 263992 (HCL), 263993, 263994 (12)	G105	S: 4/5/2006 14:50	ME0025	5-263992 BROKEN
E0026	Potable Well/ Lance Range	L/G	CLP TVOA (21), CLP TVSIM (21)	263998 (HCL), 263999 (HCL) (4)	Trip Blank 2	S: 4/12/2006 16:00		
E0027	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	263300 (1)	X114	S: 4/12/2006 13:55	ME0027	
E0028	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	263455 (1)	X115	S: 4/12/2006 16:55	ME0028	
E0029	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263458, 263459, 263460 (3)	S106	S: 4/12/2006 17:20	ME0029	
E0030	Sediment/ Paul Mason	L/G	CLP SVOA (21), VOA (21)	263462, 263463, 263464 (3)	S107	S: 4/12/2006 17:40	ME0030	
E0031	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263466, 263467, 263468 (3)	S108	S: 4/12/2006 18:00	ME0031	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E0016, E0024, E0038	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3°C	Chain of Custody Seal Number: 82817-82820
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓

CLP ARO = CLP TCL PCB (Aroclors), CLP PEST = CLP TCL Pesticide, CLP SVOA = CLP TCL Semivolatile, CLP SVSIM = CLP TCL Semivolatiles-SIM, CLP TVOA = CLP TCL Trace Volatiles, CLP TVSIM = CLP TCL Trace Volatiles-SIM, VOA = CLP TCL Volatiles

TR Number: 5-314975591-041306-0002

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to ple Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center D antilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4600

SDG NARRATIVE

LABORATORY NAME: ENVIROSYSTEMS, INC.

CASE #: 35229 SDG #: E0001 REGION: 5

CONTRACT: EPW05033

DATE SAMPLES RECEIVED AT LABORATORY: 11 APRIL 2006

SAMPLE ANALYSES INCLUDED IN THIS REPORT:

EPA SAMPLE #	LAB ID#	ANALYSIS	MATRIX
E0001	0060408-01	VOA, SVOA	SOIL/SED
E0002	0060408-02	VOA, SVOA	SOIL/SED
E0003	0060408-03	VOA, SVOA	SOIL/SED
E0004	0060408-04	VOA, SVOA	SOIL/SED
E0005	0060408-05	VOA, SVOA	SOIL/SED
E0006	0060408-06	VOA, SVOA	SOIL/SED
E0007	0060408-07	VOA, SVOA	SOIL/SED
E0008	0060408-08	VOA, SVOA	SOIL/SED
E0009	0060408-09	VOA, SVOA	SOIL/SED
E0014	0060411-04	VOA, SVOA	SOIL/SED
E0015	0060411-05	VOA, SVOA	SOIL/SED
E0016	0060411-06	VOA, SVOA	SOIL/SED
E0017	0060411-07	VOA, SVOA	SOIL/SED
E0018	0060411-08	VOA, SVOA	SOIL/SED
E0019	0060411-09	VOA, SVOA	SOIL/SED
E0027	0060411-11	VOA, SVOA	SOIL/SED
E0028	0060411-12	VOA, SVOA	SOIL/SED
E0029	0060408-18	VOA, SVOA	SOIL/SED
E0030	0060408-19	VOA, SVOA	SOIL/SED
E0031	0060408-20	VOA, SVOA	SOIL/SED

Matrix spike/matrix spike duplicate (MS/MSD) analysis for VOA was not required for this SDG. MS/MSD for SVOA are run on sample E0005.

Samples for this SDG were analyzed by EPA SOW SOM01.1 for multi-media multi-concentration organics.

The cooler temperature was measured to be 3 degrees C.

VOLATILES SECTION:

The volatile analysis was performed on an Agilent 5975 MSD using a Restek RTX-624 20 meter column with an inner diameter of 0.18 mm and a 1 micron

film thickness. The trap used with the autosampler is a 30 cm EST K Trap (VOCARB 3000) packed with Carbopack B/Carboxen 1000 & 1001.

1,4-Dioxane and 1,4-Dioxane-d8 had response factors below 0.005 in all initial and continuing calibration standards.

All other QC requirements were met for all samples in this SDG. Seven samples and a rerun had at least one internal standard area out of the QC limits. No reanalysis was performed because the problem was found out during the report preparation, past holding time. Three samples (E0029, E0030 & E0031) within SDG were not analyzed due to analyst's mistake/ oversight.

All samples were analyzed using heated purge at 55 degrees C.

SEMIVOLATILES SECTION:

The semivolatile analysis was performed on an Hewlett Packard 5973 MSD using a Restek-RTX5MS 30 meter column with an inner diameter of 0.25 mm and a 0.25 micron film thickness.

Samples E0030 required dilution due to high concentrations of target compounds.

All other QC requirements were met for all samples in this SDG.

Manual integrations were performed on the following samples and/or standards due to poor peak shape, coelution and/or low response: SSTD00517, E0017, E0019, E0029, E0030, E0030DL and E0031.

I CERTIFY THAT THIS SAMPLE DATA PACKAGE IS IN COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE CONTRACT, BOTH TECHNICALLY AND FOR COMPLETENESS, FOR OTHER THAN THE CONDITIONS DETAILED ABOVE. RELEASE OF THE DATA CONTAINED IN THIS HARDCOPY SAMPLE DATA PACKAGE AND IN THE ELECTRONIC DATA DELIVERABLE HAS BEEN AUTHORIZED BY THE LABORATORY MANAGER OR THE MANAGER'S DESIGNEE, AS VERIFIED BY THE FOLLOWING SIGNATURE:

Mohan Khare

Dr. Mohan Khare
President/CEO

DATE: 5/24/06
22 MAY 2006

Envirosystems, Inc.

From: Maruska, Gale [gmaruska@fedcsc.com]
Sent: Monday, April 17, 2006 3:20 PM
To: Barbara Crook (E-mail)
Cc: Mark Wagner (E-mail); Tony Wasilewski (E-mail); Carlene Thomas (E-mail); Howard Pham (E-mail); Warren Layne (E-mail)
Subject: Region 05 | Case 35229 | Lab ENVSYS | Discrepancies with tags, jars, and/or TR/COC | FINAL

Paul,

Issue 1: The Traffic Reports have 3 pages of reports with E for sample numbers, and 2 traffic reports that have EPA samples with X for sample numbers.
Resolution Issue 1: Per Region 5:
. On the TR number 5-314975791-041106-0003, the sample numbers indicated as X101-X109 will be the same as sample numbers of E0001-E0009 . On the TR number 5-314975791-041106-0001, the sample numbers indicated as X116-X118 will be the same as sample number E0032-E0034.
. On the TR number 5-314975791-041106-0002, the sample numbers indicated as X110 will be the same number as E0040, X111-X113 will be the same as E0015-E0017, X114-X115 will be the same number as E0027-E0028.
All these sample bottles were designated using as determination the percentage of moisture.

Issue 2: The samples were labeled for BNA only. The Lab has enough for Pest and Aroclors, can they use the samples for this purpose?
Resolution Issue 2: Per Region 5, all soil samples are to be run for pest and pcb.

Please let me know if you have any questions.

Gale E. Maruska
Computer Sciences Corporation
Environmental Scientist
ST&R Coordinator Regions 5, 7 & 10
gmaruska@fedcsc.com
Phone(703)818-4125; Fax(703)818-4601; Alternate Fax(703)818-4602

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

-----Original Message-----
From: Pham.Howard@epamail.epa.gov [mailto:Pham.Howard@epamail.epa.gov]
Sent: Monday, April 17, 2006 3:59 PM
To: Maruska, Gale
Cc: thomas.carlene@epamail.epa.gov; layne.warren@epamail.epa.gov;roc Tony.Wasilewski@epa.state.il.us
Subject: Re: FW: Region 05 | Case 35229 | Lab ENVSYS | Discrepancies with tags , jars, and/or TR/COC

HI Gale,

I spoke with Tony and our resolution listed as the following:

. On the TR number 5-314975791-041106-0003, the sample numbers indicated as X101-X109 will be the same as sample numbers of E0001-E0009 . On the TR number

5-314975791-041106-0001, the sample numbers indicated as X116-X118 will be the same as sample number E0032-E0034.
. On the TR number 5-314975791-041106-0002, the sample numbers indicated as X110 will be the same number as E0040, X111-X113 will be the same as E0015-E0017, X114-X115 will be the same number as E0027-E0028.
All these sample bottles were designated using as determination the percentage of moisture.
If you have any further questions, please contact me.

Howard Pham, Chemist/CLP PO
U.S. EPA, Region 5 (SMF-4J)
77 West Jackson Blvd.
Chicago, IL. 60604
(312) 353-2310
(312) 353-9281 (fax)
pham.howard@epa.gov

"Maruska, Gale"
<gmaruska@fedcsc
.com>

04/17/2006 08:26 AM

To
Carlene Thomas/R5/USEPA/US@EPA,
Howard Pham/R5/USEPA/US@EPA,
Warren Layne/R5/USEPA/US
Subject
FW: Region 05 | Case 35229 | Lab ENVSYS | Discrepancies with tags , jars, and/or TR/COC

Please confirm the resolutions provided by Tony.

thanks,
Gale

yes all soil samples are to be run for pest and pcb.

-----Original Message-----
From: Tony Wasilewski [mailto:Tony.Wasilewski@epa.state.il.us]
Sent: Monday, April 17, 2006 8:38 AM
To: gmaruska@fedcsc.com
Subject: Re: Region 05 | Case 35229 | Lab ENVSYS | Discrepancies with tags, ja rs, and/or TR/COC

The traffic report with X corresponds with the traffic report with E such as X101 on one traffic report corresponds with X101 on the other traffic report and so on.

Tony Wasilewski, Project Manager, OSE
Illinois Environmental Protection Agency
1021 N. Grand Ave. East
P.O. Box 19276
Springfield, IL 62794-9276
217-557-3200, Fax 217-782-3258
epa4545@epa.state.il.us

-----Original Message-----
From: Maruska, Gale
Sent: Friday, April 14, 2006 10:59 AM
To: Mark Wagner (E-mail)
Cc: Carlene Thomas (E-mail); Howard Pham (E-mail); Warren Layne (E-mail)
Subject: Region 05 | Case 35229 | Lab ENVSYS | Issue Discrepancies with tags, jars, and/or TR/COC

01161

ENVSYS has sent the following issue for samples received for Case 35229:

Issue: The samples were labeled for BNA only. The Lab has enough for Pest and Aroclors, can they use the samples for this purpose?

The sample numbers are as follows: E0001-E0009, E0014-E0019, E0030-E0034, E0036-E0040, AND E0027, E0029.

Please advise.
Gale E. Maruska
Computer Sciences Corporation
Environmental Scientist
ST&R Coordinator Regions 5, 7 & 10
gmaruska@fedcsc.com
Phone(703)818-4125; Fax(703)818-4601; Alternate Fax(703)818-4602

-----Original Message-----
From: Envirosystems [mailto:envirosystems@gmail.com]On Behalf Of Envirosystems, Inc.
Sent: Friday, April 14, 2006 10:33 AM
To: 'Maruska, Gale'
Subject: Samples for Case 35229

Gale,

Issue:

Samples labeled for Case 35229 for BNA , we have enough for Pest and Aroclors, can we use the samples for this purpose. Here are the sample numbers. Thank you. Paul Lewicki--

E0001-E0009, E0014-E0019, E0030-E0034, E0036-E0040, AND E0027, E0029.

-----Original Message-----
From: Maruska, Gale
Sent: Friday, April 14, 2006 9:11 AM
To: Mark Wagner (E-mail)
Cc: Carlene Thomas (E-mail); Howard Pham (E-mail); Warren Layne (E-mail)
Subject: Region 05 | Case 35229 | Lab ENVSYS | Discrepancies with tags,

ENVSYS has sent the following issue for samples received for Case 35229:

Issue: The Traffic Reports have 3 pages of reports with E for sample numbers, and 2 traffic reports that have EPA samples with X for sample numbers.

Please advise.
Gale E. Maruska
Computer Sciences Corporation
Environmental Scientist
ST&R Coordinator Regions 5, 7 & 10
gmaruska@fedcsc.com
Phone(703)818-4125; Fax(703)818-4601; Alternate Fax(703)818-4602

-----Original Message-----
From: Envirosystems [mailto:envirosystems@gmail.com]On Behalf Of Envirosystems, Inc.
Sent: Thursday, April 13, 2006 5:31 PM
To: 'Maruska, Gale'
Subject: Case 35229 SDG unknown

Gale,

Issue,

Case 35229 traffic reports for the case have 3 pages of reports for E for sample numbers, and then I have 2 traffic reports that have EPA samples with X for sample numbers. Let me know what you want me to do. Paul-

0116

2C - FORM II VOA-3
SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0001

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	E0001	94	128	79	95	107	122	107
02	E0002	91	112	77	68	100	110	104
03	E0003	93	108	76	59	100	110	101
04	E0004	91	105	76	72	101	112	101
05	E0005	90	104	78	66	102	113	106
06	E0006	98	125	80	61	105	116	112
07	E0007	98	122	81	74	104	118	110
08	E0008	97	115	80	105	111	134 *	114
09	E0009	97	119	81	88	105	126 *	117
10	VBLKHU	91	109	74	57	98	107	99
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

		QC LIMITS
VDMC1	(VCL) = Vinyl chloride-d3	(68-122)
VDMC2	(CLA) = Chloroethane-d5	(61-130)
VDMC3	(DCE) = 1,1-Dichloroethene-d2	(45-132)
VDMC4	(BUT) = 2-Butanone-d5	(20-182)
VDMC5	(CLF) = Chloroform-d	(72-123)
VDMC6	(DCA) = 1,2-Dichloroethane-d4	(79-122)
VDMC7	(BEN) = Benzene-d6	(80-121)

Column to be used to flag recovery values
* Value outside of contract required QC limits

2D - FORM II VOA-4
SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0001

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	E0001	110	106	117	115	116	123	115	0
02	E0002	106	102	110	88	79	104	107	0
03	E0003	103	101	106	76	74	101	108	0
04	E0004	104	101	107	93	97	110	110	0
05	E0005	108	104	110	86	77	104	111	0
06	E0006	115	107	114	81	70	102	110	0
07	E0007	112	108	112	96	89	114	115	0
08	E0008	120	106	118	124	130	127	117	1
09	E0009	123	111	118	114	108	118	116	1
10	VBLKHU	100	99	106	73	72	98	104	0
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

		QC LIMITS
VDMC8	(DPA) = 1,2-Dichloropropane-d6	(74-124)
VDMC9	(TOL) = Toluene-d8	(78-121)
VDMC10	(TDP) = trans-1,3-Dichloropropene-d4	(72-130)
VDMC11	(HEX) = 2-Hexanone-d5	(17-184)
VDMC12	(DXE) = 1,4-Dioxane-d8	(50-150)
VDMC13	(TCA) = 1,1,2,2-Tetrachloroethane-d2	(56-161)
VDMC14	(DCZ) = 1,2-Dichlorobenzene-d4	(70-131)

Column to be used to flag recovery values
* Values outside of contract required QC limits

00017

2C - FORM II VOA-3
SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	E0014	85	97	64	73	85	89	86
02	E0015	88	92	65	83	86	92	86
03	E0016	88	86	65	70	87	91	88
04	E0017	91	100	65	77	88	97	94
05	E0017RE	91	107	69	97	97	116	100
06	E0018	96	102	70	71	93	101	101
07	E0019	103	111	74	67	95	97	114
08	E0027	80	81	62	82	85	97	85
09	E0028	81	98	62	82	90	111	93
10	VBLKHI	92	83	65	64	85	88	85
11	VIBLKH2	80	88	64	64	83	92	83
12	VIBLKH3	90	98	68	67	89	99	89
13	VIBLKHI	87	93	65	62	86	93	84
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

		QC LIMITS
VDMC1	(VCL) = Vinyl chloride-d3	(68-122)
VDMC2	(CLA) = Chloroethane-d5	(61-130)
VDMC3	(DCE) = 1,1-Dichloroethene-d2	(45-132)
VDMC4	(BUT) = 2-Butanone-d5	(20-182)
VDMC5	(CLF) = Chloroform-d	(72-123)
VDMC6	(DCA) = 1,2-Dichloroethane-d4	(79-122)
VDMC7	(BEN) = Benzene-d6	(80-121)

Column to be used to flag recovery values
* Value outside of contract required QC limits

00018

2D - FORM II VOA-4
SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0001

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	E0014	87	85	90	90	97	93	90	0
02	E0015	88	86	92	96	101	95	91	0
03	E0016	89	87	91	83	82	88	91	0
04	E0017	101	88	94	101	113	97	91	0
05	E0017RE	109	92	108	124	149	120	100	0
06	E0018	105	97	93	92	86	94	97	0
07	E0019	119	102	92	83	62	105	104	0
08	E0027	90	82	92	96	104	96	91	0
09	E0028	103	86	104	101	102	103	92	0
10	VBLKHI	87	85	87	72	75	85	91	0
11	VIBLKH2	86	83	91	80	81	88	90	0
12	VIBLKH3	91	89	96	87	92	96	98	0
13	VIBLKHI	87	84	92	75	74	86	91	0
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

		QC LIMITS
VDMC8 (DPA)	= 1,2-Dichloropropane-d6	(74-124)
VDMC9 (TOL)	= Toluene-d8	(78-121)
VDMC10 (TDP)	= trans-1,3-Dichloropropene-d4	(72-130)
VDMC11 (HEX)	= 2-Hexanone-d5	(17-184)
VDMC12 (DXE)	= 1,4-Dioxane-d8	(50-150)
VDMC13 (TCA)	= 1,1,2,2-Tetrachloroethane-d2	(56-161)
VDMC14 (DCZ)	= 1,2-Dichlorobenzene-d4	(70-131)

Column to be used to flag recovery values
* Values outside of contract required QC limits

00019

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKHU

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0001

Lab File ID: 0000091 3.D Lab Sample ID: 0D62602-BLK1

Instrument ID: HP75H

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 04/26/2006

Level: (TRACE or LOW/MED) LOW Time Analyzed: 1017

GC Column: RTX-624 ID: .18 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E0001	0060408-01	0000091 4.D	1135
02	E0002	0060408-02	0000091 5.D	1208
03	E0003	0060408-03	0000091 6.D	1242
04	E0004	0060408-04	0000091 7.D	1315
05	E0005	0060408-05	0000091 8.D	1349
06	E0006	0060408-06	0000091 9.D	1422
07	E0007	0060408-07	0000091 10.D	1455
08	E0008	0060408-08	0000091 11.D	1531
09	E0009	0060408-09	0000091 12.D	1604
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

00020

SOM01.1 (5/2005)

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKHI

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0001

Lab File ID: 0000081 3.D Lab Sample ID: 0D61401-BLK1

Instrument ID: HP75H

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 04/14/2006

Level: (TRACE or LOW/MED) LOW Time Analyzed: 1020

GC Column: RTX-624 ID: .18 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E0014	0060411-04	0000081 4.D	1116
02	E0015	0060411-05	0000081 5.D	1149
03	E0016	0060411-06	0000081 6.D	1223
04	E0017	0060411-07	0000081 7.D	1256
05	E0017	0060411-07RE1	0000081 14.D	1651
06	E0018	0060411-08	0000081 9.D	1403
07	E0019	0060411-09	0000081 10.D	1436
08	E0027	0060411-11	0000081 12.D	1543
09	E0028	0060411-12	0000081 13.D	1617
10	VIBLKHI	0D61401-CCB1	0000081 8.D	1329
11	VIBLKH2	0D61401-CCB2	0000081 11.D	1510
12	VIBLKH3	0D61401-CCB3	0000081 15.D	1724
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

2J - FORM II SV-3
SOIL SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: ____ SDG No.: E0001

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	E0001	68	64	67	56	67	71	66	7
02	E0002	68	67	70	49	71	71	68	3
03	E0003	75	73	76	63	78	79	77	5
04	E0004	62	60	62	46	63	63	60	*
05	E0005	69	65	68	57	67	73	66	8
06	E0005MS	74	71	73	67	72	76	73	8
07	E0005MSD	75	73	75	65	77	76	75	1
08	E0006	73	70	73	61	73	78	72	8
09	E0007	67	63	66	54	68	68	64	3
10	E0008	75	71	74	61	73	79	73	7
11	E0009	75	72	75	68	77	75	74	5
12	E0014	68	67	69	58	69	70	66	10
13	E0015	78	74	78	68	76	80	74	*
14	E0016	76	74	77	69	79	79	76	3
15	E0017	86	87	87	74	86	85	87	24
16	E0018	81	72	79	74	78	82	79	*
17	E0019	79	74	79	73	79	79	80	4
18	E0027	79	75	79	70	78	80	76	4
19	E0028	75	71	74	65	75	76	73	9
20	E0029	74	69	73	65	76	73	74	*
21	E0030	80	81	82	72	84	84	84	12
22	E0030DL	90	121* D	94	87	91	97	96	* D
23	E0031	82	76	82	73	82	83	82	*
24	SBLK11	84	84	86	71	89	87	83	20
25	SBLK15	64	61	64	59	63	66	62	15
26	SBLK19	80	77	80	75	79	84	77	17
27									
28									
29									
30									

			QC LIMITS
SDMC1	(PHL)	= Phenol-d5	(17-103)
SDMC2	(BCE)	= Bis(2-chloroethyl)ether-d8	(12-98)
SDMC3	(2CP)	= 2-Chlorophenol-d4	(13-101)
SDMC4	(4MP)	= 4-Methylphenol-d8	(8-100)
SDMC5	(NBZ)	= Nitrobenzene-d5	(16-103)
SDMC6	(2NP)	= 2-Nitrophenol-d4	(16-104)
SDMC7	(DCP)	= 2,4-Dichlorophenol-d3	(23-104)
SDMC8	(4CA)	= 4-Chloroaniline-d4	(1-145)

KB 6/6/06

Column to be used to flag recovery values
* Value outside of contract required QC limits
D DMC diluted out

00407

2K - FORM II SV-4
SOIL SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case 35229 Mod. Ref No.: _____ SDG No.: E0001

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC9 (DMP) #	SDMC10 (ACY) #	SDMC11 (4NP) #	SDMC12 (FLR) #	SDMC13 (NMP) #	SDMC14 (ANC) #	SDMC15 (PYR) #	SDMC16 (BAP) #	TOT OUT
01	E0001	73	69	70	72	59	64	56	42 *	1
02	E0002	77	74	63	77	50	67	68	54	0
03	E0003	87	82	79	89	61	77	80	74	0
04	E0004	67	64	58	68	42	55	60	53	Ø 1
05	E0005	73	69	73	74	59	64	64	65	0
06	E0005MS	80	77	79	82	60	73	69	73	0
07	E0005MSD	83	80	85	85	62	74	68	58	0
08	E0006	78	75	68	79	55	68	75	67	0
09	E0007	72	70	64	72	49	63	66	64	0
10	E0008	80	76	83	82	69	70	67	71	0
11	E0009	84	82	67	86	46	77	75	76	0
12	E0014	76	72	68	78	47	66	45 *	42 *	2
13	E0015	84	80	70	84	53	76	85	73	Ø 1
14	E0016	86	82	79	87	61	79	79	75	0
15	E0017	96	93	110	97	98	90	70	95	0
16	E0018	85	81	88	84	75	77	63	79	Ø 1
17	E0019	88	85	98	89	89	83	67	86	0
18	E0027	85	80	79	87	58	77	79	77	0
19	E0028	82	77	84	83	66	73	74	71	0
20	E0029	84	81	85	85	71	75	64	83	Ø 1
21	E0030	84	80	39	84	116	83	70	58	0
22	E0030DL	102	* 102 D	* 185 D	* 109 D	88	98	75	92	Ø 5
23	E0031	89	88	102	91	92	81	61	78	Ø 1
24	SBLK11	92	90	71	92	58	83	79	73	0
25	SBLK15	69	68	51	70	37	65	60	61	0
26	SBLK19	86	84	75	86	65	80	69	79	0
27										
28										
29										
30										

		QC LIMITS
SDMC9	(DMP) = Dimethylphthalate-d6	(43-111)
SDMC10	(ACY) = Acenaphthylene-d8	(20-97)
SDMC11	(4NP) = 4-Nitrophenol-d4	(16-166)
SDMC12	(FLR) = Fluorene-d10	(40-108)
SDMC13	(NMP) = 4,6-Dinitro-2-methylphenol-d2	(1-121)
SDMC14	(ANC) = Anthracene-d10	(22-98)
SDMC15	(PYR) = Pyrene-d10	(51-120)
SDMC16	(BAP) = Benzo(a)pyrene-d12	(43-111)

Column to be used to flag recovery values
* Value outside of contract required QC limits
D DMC diluted out

6/6/06

00403

SOM01.1 (5/2005)

3D - FORM III SV-2
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENVIROSYSTEMS, INC. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix Spike - EPA Sample No.: E0005 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	1500	0.0	1100	73	26- 90
2-Chlorophenol	1500	0.0	1100	73	25-102
N-Nitroso-di-n-propylamine	1500	0.0	1100	73	41-126
4-Chloro-3-methylphenol	1500	0.0	1200	80	26-103
Acenaphthene	1500	0.0	1200	80	31-137
4-Nitrophenol	1500	0.0	1200	80	11-114
2,4-Dinitrotoluene	1500	0.0	1200	80	28- 89
Pentachlorophenol	1500	0.0	1300	87	17-109
Pyrene	1500	0.0	1300	87	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	1500	1200	80	9	35	26- 90
2-Chlorophenol	1500	1100	73	0	50	25-102
N-Nitroso-di-n-propylamine	1500	1100	73	0	38	41-126
4-Chloro-3-methylphenol	1500	1200	80	0	33	26-103
Acenaphthene	1500	1200	80	0	19	31-137
4-Nitrophenol	1500	1300	87	8	50	11-114
2,4-Dinitrotoluene	1500	1300	87	8	47	28- 89
Pentachlorophenol	1500	1400	93	7	47	17-109
Pyrene	1500	1100	73	18	36	35-142

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 9 outside limits
Spike Recovery: 0 out of 18 outside limits

COMMENTS: _____

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK11

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0001

Lab File ID: AG73IA772.D Lab Sample ID: 0D62001-BLK1

Instrument ID: HP73I Date Extracted: 04/20/2006

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 05/04/2006

Level: (LOW/MED) LOW Time Analyzed: 1222

Extraction: (Type) SONC GPC Cleanup: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E0001	0060408-01	AG73IA776.D	05/04/2006
02	E0002	0060408-02	AG73IA777.D	05/04/2006
03	E0003	0060408-03	AG73IA778.D	05/04/2006
04	E0004	0060408-04	AG73IA779.D	05/04/2006
05	E0005	0060408-05	AG73IA780.D	05/04/2006
06	E0006	0060408-06	AG73IA781.D	05/04/2006
07	E0007	0060408-07	AG73IA782.D	05/04/2006
08	E0008	0060408-08	AG73IA783.D	05/04/2006
09	E0014	0060408-10	AG73IA793.D	05/05/2006
10	E0015	0060408-11	AG73IA794.D	05/05/2006
11	E0016	0060408-12	AG73IA795.D	05/05/2006
12	E0005MS	0D62001-MS1	AG73IA798.D	05/05/2006
13	E0005MSD	0D62001-MSD1	AG73IA799.D	05/05/2006
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

00410

SOM01.1 (5/2005)

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
SBLK15

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0001

Lab File ID: AG73IA775.D Lab Sample ID: 0D62401-BLK1

Instrument ID: HP73I Date Extracted: 04/24/2006

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 05/04/2006

Level: (LOW/MED) LOW Time Analyzed: 1430

Extraction: (Type) SONC GPC Cleanup: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E0017	0060408-13	AG73IA816.D	05/08/2006
02	E0018	0060408-14	AG73IA800.D	05/05/2006
03	E0019	0060408-15	AG73IA813.D	05/08/2006
04	E0027	0060408-16	AG73IA796.D	05/05/2006
05	E0028	0060408-17	AG73IA797.D	05/05/2006
06	E0029	0060408-18	AG73IA812.D	05/08/2006
07	E0030	0060408-19	AG73IA815.D	05/08/2006
08	E0030DL	0060408-19RE1	AG73IA817.D	05/08/2006
09	E0031	0060408-20	AG73IA814.D	05/08/2006
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

00411

SOM01.1 (5/2005)

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK19

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0001

Lab File ID: AG73IA774.D Lab Sample ID: 0E60101-BLK1

Instrument ID: HP73I Date Extracted: 05/01/2006

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 05/04/2006

Level: (LOW/MED) LOW Time Analyzed: 1347

Extraction: (Type) SONC GPC Cleanup: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E0009	0060408-09RE1	AG73IA792.D	05/05/2006
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

00412

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0001

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-01

Sample wt/vol: 6.25 (g/mL) G Lab File ID: 0000091_4.D

Level: (TRACE or LOW/MED) LOW Date Received: 04/12/2006

% Moisture: not dec. 17.7 Date Analyzed: 04/26/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG Purge Volume: 5.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.50	9.8	JDB u
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

JB 6/6/06

00031

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0002

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-02

Sample wt/vol: 6.90 (g/mL) G Lab File ID: 0000091_5.D

Level: (TRACE or LOW/MED) LOW Date Received: 04/12/2006

% Moisture: not dec. 16.2 Date Analyzed: 04/26/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG Purge Volume: 5.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.50	7.1	JDB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

u

6/6/06

00043

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0003

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-03

Sample wt/vol: 6.26 (g/mL) G Lab File ID: 0000091_6.D

Level: (TRACE or LOW/MED) LOW Date Received: 04/12/2006

% Moisture: not dec. 18.3 Date Analyzed: 04/26/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG Purge Volume: 5.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.51	10	JD
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

KB 6/6/06

00053

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0004

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-04

Sample wt/vol: 6.31 (g/mL) G Lab File ID: 0000091_7.D

Level: (TRACE or LOW/MED) LOW Date Received: 04/12/2006

% Moisture: not dec. 29.3 Date Analyzed: 04/26/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG Purge Volume: 5.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.50	12	JDB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

JB 6/6/06

00063

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0005

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-05

Sample wt/vol: 6.69 (g/mL) G Lab File ID: 0000091_8.D

Level: (TRACE or LOW/MED) LOW Date Received: 04/12/2006

% Moisture: not dec. 12.7 Date Analyzed: 04/26/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG Purge Volume: 5.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.50	9.0	JDB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

RB 6/6/0

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0006

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-06

Sample wt/vol: 6.91 (g/mL) G Lab File ID: 0000091_9.D

Level: (TRACE or LOW/MED) LOW Date Received: 04/12/2006

% Moisture: not dec. 26.9 Date Analyzed: 04/26/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG Purge Volume: 5.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.51	13	JD
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

RB 6/6/06

00037

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0007

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-07

Sample wt/vol: 5.67 (g/mL) G Lab File ID: 0000091_10.D

Level: (TRACE or LOW/MED) LOW Date Received: 04/12/2006

% Moisture: not dec. 28.8 Date Analyzed: 04/26/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG Purge Volume: 5.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.50	25	JDB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

00097

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0008

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-08

Sample wt/vol: 6.86 (g/mL) G Lab File ID: 0000091_11.D

Level: (TRACE or LOW/MED) LOW Date Received: 04/12/2006

% Moisture: not dec. 13.3 Date Analyzed: 04/26/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG Purge Volume: 5.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.50	15	JDB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

u

RB 6/6/06

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0009

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-09

Sample wt/vol: 6.79 (g/mL) G Lab File ID: 0000091_12.D

Level: (TRACE or LOW/MED) LOW Date Received: 04/12/2006

% Moisture: not dec. 27.8 Date Analyzed: 04/26/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG Purge Volume: 5.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.50	15	JDB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

RB 6/6/06

00119

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0014

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060411-04

Sample wt/vol: 6.67 (g/mL) G Lab File ID: 0000081_4.D

Level: (TRACE or LOW/MED) LOW Date Received: 04/13/2006

% Moisture: not dec. 15.0 Date Analyzed: 04/14/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG Purge Volume: 5.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.50	30	JDB
02		UNKNOWN	7.21	42	JD
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

RB 6/6/06

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0015

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060411-05

Sample wt/vol: 6.75 (g/mL) G Lab File ID: 0000081_5.D

Level: (TRACE or LOW/MED) LOW Date Received: 04/13/2006

% Moisture: not dec. 12.0 Date Analyzed: 04/14/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG Purge Volume: 5.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.50	9.0	JDB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

RB 6/6/06

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0016

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060411-06

Sample wt/vol: 6.89 (g/mL) G Lab File ID: 0000081_6.D

Level: (TRACE or LOW/MED) LOW Date Received: 04/13/2006

% Moisture: not dec. 8.0 Date Analyzed: 04/14/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG Purge Volume: 5.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.50	13	JDB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

u

RB 6/6/06

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0017

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060411-07

Sample wt/vol: 5.53 (g/mL) G Lab File ID: 0000081_7.D

Level: (TRACE or LOW/MED) LOW Date Received: 04/13/2006

% Moisture: not dec. 37.0 Date Analyzed: 04/14/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG Purge Volume: 5.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.50	41	JDB
02	565-59-3	Pentane, 2,3-dimethyl-	5.52	36	JDN
03	589-34-4	Hexane, 3-methyl-	5.61	95	JDN
04		UNKNOWN	5.78	100	JD
05		UNKNOWN	6.45	68	JD
06		UNKNOWN	6.53	110	JD
07	2815-58-9	Cyclopentane, 1,2,4-trimethyl-	6.70	76	JDN
08	15890-40-1	Cyclopentane, 1,2,3-trimethyl-, (	6.83	85	JDN
09		UNKNOWN	7.20	71	JD
10	638-04-0	Cyclohexane, 1,3-dimethyl-, cis-	7.34	58	JDN
11	583-57-3	Cyclohexane, 1,2-dimethyl-	7.67	38	JDN
12		UNKNOWN	7.97	36	JD
13	3073-66-3	Cyclohexane, 1,1,3-trimethyl-	8.24	59	JDN
14	7667-60-9	Cyclohexane, 1,2,4-trimethyl-, (	8.45	30	JDN
15	2051-30-1	Octane, 2,6-dimethyl-	9.42	55	JDN
16	13395-76-1	Cyclohexanone, 2,3-dimethyl-	9.54	48	JDN
17	17301-94-9	Nonane, 4-methyl-	9.76	37	JDN
18		UNKNOWN	10.09	26	JD
19	2847-72-5	Decane, 4-methyl-	10.51	43	JDN
20		UNKNOWN	10.81	29	JD
21	873-49-4	Benzene, cyclopropyl-	11.23	27	JDN
22	99-87-6	Benzene, 1-methyl-4-(1-methyleth	11.68	34	JDN
23		UNKNOWN	11.99	30	JD
24	95-93-2	Benzene, 1,2,4,5-tetramethyl-	12.14	41	JDN
25	2039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	12.56	37	JDN
26	17301-28-9	Undecane, 3,6-dimethyl-	12.62	31	JDN
27		UNKNOWN	13.03	32	JD
28		UNKNOWN	13.21	33	JD
29		UNKNOWN	14.10	30	JD
30	3891-98-3	Dodecane, 2,6,10-trimethyl-	14.23	26	JDN
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

il

RB 6/6/06

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0017RE

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060411-07RE1

Sample wt/vol: 5.53 (g/mL) G Lab File ID: 0000081_14.D

Level: (TRACE or LOW/MED) LOW Date Received: 04/13/2006

% Moisture: not dec. 37.0 Date Analyzed: 04/14/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG Purge Volume: 5.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.50	43	JDB
02	589-34-4	Hexane, 3-methyl-	5.61	24	JDN
03		UNKNOWN	5.78	88	JD
04		UNKNOWN	6.45	15	JD
05		UNKNOWN	6.53	66	JD
06	15890-40-1	Cyclopentane, 1,2,3-trimethyl-, (	6.84	19	JDN
07		UNKNOWN	7.21	82	JD
08	583-57-3	Cyclohexane, 1,2-dimethyl-	7.34	15	JDN
09	3073-66-3	Cyclohexane, 1,1,3-trimethyl-	8.25	16	JDN
10	2051-30-1	Octane, 2,6-dimethyl-	9.42	15	JDN
11	1678-92-8	Cyclohexane, propyl-	9.54	15	JDN
12		UNKNOWN	9.77	11	JD
13	103-65-1	Benzene, propyl-	10.09	14	JDN
14		UNKNOWN	10.20	16	JD
15	611-14-3	Benzene, 1-ethyl-2-methyl-	10.46	14	JDN
16	2847-72-5	Decane, 4-methyl-	10.51	16	JDN
17	108-67-8	Benzene, 1,3,5-trimethyl-	10.63	13	JDN
18		UNKNOWN	11.23	19	JD
19	2870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	11.59	17	JDN
20	767-58-8	Indan, 1-methyl-	11.79	16	JDN
21	29949-27-7	n-Amylcyclohexane	11.99	16	JDN
22	535-77-3	Benzene, 1-methyl-3-(1-methyleth	12.09	14	JDN
23	527-53-7	Benzene, 1,2,3,5-tetramethyl-	12.14	28	JDN
24	3454-07-7	Benzene, 1-ethenyl-4-ethyl-	12.56	27	JDN
25	17301-23-4	Undecane, 2,6-dimethyl-	12.63	14	JDN
26	4920-99-4	Benzene, 1-ethyl-3-(1-methylethyl	12.93	13	JDN
27		UNKNOWN	13.03	15	JD
28		UNKNOWN	14.10	17	JD
29	581-40-8	Naphthalene, 2,3-dimethyl-	15.50	14	JDN
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

RB 6/6/06

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0018

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060411-08

Sample wt/vol: 6.00 (g/mL) G Lab File ID: 0000081_9.D

Level: (TRACE or LOW/MED) LOW Date Received: 04/13/2006

% Moisture: not dec. 49.0 Date Analyzed: 04/14/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG Purge Volume: 5.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.50	28	JDB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

RB 6/6/06

SOM01.1 (5/2005)

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0019

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060411-09

Sample wt/vol: 6.07 (g/mL) G Lab File ID: 0000081_10.D

Level: (TRACE or LOW/MED) LOW Date Received: 04/13/2006

% Moisture: not dec. 39.0 Date Analyzed: 04/14/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG Purge Volume: 5.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.50	34	JDB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

u

RB 6/6/06

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0027

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060411-11

Sample wt/vol: 6.25 (g/mL) G Lab File ID: 0000081_12.D

Level: (TRACE or LOW/MED) LOW Date Received: 04/13/2006

% Moisture: not dec. 29.0 Date Analyzed: 04/14/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG Purge Volume: 5.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.50	26	JDB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

ie

RB 4/11/06

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0028

Lab Name: Envircsystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060411-12

Sample wt/vol: 6.63 (g/mL) G Lab File ID: 0000081_13.D

Level: (TRACE or LOW/MED) LOW Date Received: 04/13/2006

% Moisture: not dec. 12.0 Date Analyzed: 04/14/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG Purge Volume: 5.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.50	21	JDB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

N

RB 6/6/06

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLKH1

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D61401-BLK1

Sample wt/vol: 5.00 (g/mL) G Lab File ID: 0000081_3.D

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 04/14/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG Purge Volume: 5.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.50	7.7	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLKHU

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D62602-BLK1

Sample wt/vol: 5.00 (g/mL) G Lab File ID: 0000091_3.D

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 04/26/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG Purge Volume: 5.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.50	5.6	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0001

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA776.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18.0 Decanted: (Y/N) N Date Received: 04/12/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/20/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/04/2006

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	6.42	100	JB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

00428

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0002

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA777.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16.0 Decanted: (Y/N) N Date Received: 04/12/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/20/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/04/2006

GPC Cleanup: (Y/N) Y pH: 9.1 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	6.42	96	JB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

RB 6/6/06

00157

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0003

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA778.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18.0 Decanted: (Y/N) N Date Received: 04/12/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/20/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/04/2006

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	6.42	150	JB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

RB 6/6/06

00447

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0004

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA779.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 29.0 Decanted: (Y/N) N Date Received: 04/12/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/20/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/04/2006

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	6.42	99	JB u
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

KB 6/6/06

00457

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0005

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA780.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13.0 Decanted: (Y/N) N Date Received: 04/12/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/20/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/04/2006

GPC Cleanup: (Y/N) Y pH: 8.9 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	6.42	80	JB u
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

RB 6/6/06

00466

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0006

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA781.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 27.0 Decanted: (Y/N) N Date Received: 04/12/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/20/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/04/2006

GPC Cleanup: (Y/N) Y pH: 9.0 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	6.42	100	JB u
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

RB 6/6/06

00476

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0008

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA783.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13.0 Decanted: (Y/N) N Date Received: 04/12/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/20/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/04/2006

GPC Cleanup: (Y/N) Y pH: 8.5 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	6.42	91	JB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

RB 6/6/06

00494

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0015

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA794.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12.0 Decanted: (Y/N) N Date Received: 04/12/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/20/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/05/2006

GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	79-34-5	Ethane, 1,1,2,2-tetrachloro-	6.36	89	JN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0016

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA795.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 04/12/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/20/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/05/2006

GPC Cleanup: (Y/N) Y pH: 8.7 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	79-34-5	Ethane, 1,1,2,2-tetrachloro-	6.37	100	JN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0017

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA816.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 37.0 Decanted: (Y/N) N Date Received: 04/12/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/08/2006

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 5.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	10.36	990	JD
02		UNKNOWN	11.23	2900	JD
03		UNKNOWN	11.63	1200	JD
04		UNKNOWN	12.04	1300	JD
05		UNKNOWN	12.07	3500	JD
06		UNKNOWN	12.70	1400	JD
07	90-12-0	Naphthalene, 1-methyl-	12.74	1100	JDN
08		UNKNOWN	13.14	1200	JD
09		UNKNOWN	13.25	1600	JD
10		UNKNOWN	13.49	5600	JD
11		UNKNOWN	13.84	1500	JD
12	581-42-0	Naphthalene, 2,6-dimethyl-	13.99	2100	JDN
13	581-40-8	Naphthalene, 2,3-dimethyl-	14.19	2200	JDN
14	582-16-1	Naphthalene, 2,7-dimethyl-	14.23	2600	JDN
15		UNKNOWN	14.45	3100	JD
16		UNKNOWN	14.83	1900	JD
17		UNKNOWN	15.02	1400	JD
18		UNKNOWN	15.06	1300	JD
19	134261-85-1	3-(2-Methyl-propenyl)-1H-indene	15.25	1200	JDN
20	2245-38-7	Naphthalene, 1,6,7-trimethyl-	15.52	1400	JDN
21	2131-42-2	Naphthalene, 1,4,6-trimethyl-	15.58	1500	JDN
22		UNKNOWN	15.73	1800	JD
23		UNKNOWN	15.81	1200	JD
24		UNKNOWN	15.85	1700	JD
25	140-66-9	Phenol, 4-(1,1,3,3-tetramethylbut	16.39	3800	JDN
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	33000	

[2] EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0018

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA800.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 49.0 Decanted: (Y/N) N Date Received: 04/12/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/05/2006

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	6.23	150	J
02		UNKNOWN	10.63	370	J
03		UNKNOWN	15.97	220	J
04	57-10-3	n-Hexadecanoic acid	20.08	240	JN
05		UNKNOWN	23.57	1400	J
06		UNKNOWN	23.69	3200	J
07		UNKNOWN	23.76	7900	J
08		UNKNOWN	23.81	1500	J
09		UNKNOWN	23.93	1500	J
10		UNKNOWN	24.09	590	J
11		UNKNOWN	24.24	3500	J
12		UNKNOWN	24.30	1300	J
13		UNKNOWN	24.42	1100	J
14		UNKNOWN	24.63	5400	J
15		UNKNOWN	24.77	13000	J
16		UNKNOWN	24.81	1200	J
17		UNKNOWN	24.87	1400	J
18		UNKNOWN	25.09	1200	J
19		UNKNOWN	25.23	500	J
20		UNKNOWN	25.60	930	J
21		UNKNOWN	26.27	440	J
22		UNKNOWN	26.58	710	J
23	83-47-6	.gamma.-Sitosterol	30.90	2700	JN
24		UNKNOWN	31.00	1200	J
25		UNKNOWN	31.08	780	J
26		UNKNOWN	31.39	660	J
27		UNKNOWN	31.50	1600	J
28		UNKNOWN	31.74	970	J
29	58-22-0	Testosterone	32.20	780	JN
30		UNKNOWN	33.20	1700	J
	E966796[2]	Total Alkanes	N/A	440	

[2] EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0019

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA813.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 39.0 Decanted: (Y/N) N Date Received: 04/12/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/08/2006

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	108-67-8	Benzene, 1,3,5-trimethyl-	7.78	190	JN
02	526-73-8	Benzene, 1,2,3-trimethyl-	8.27	180	JN
03		UNKNOWN	8.82	180	J
04	2039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	10.35	170	JN
05		UNKNOWN	10.62	180	J
06	91-57-6	Naphthalene, 2-methyl-	12.74	480	JN
07	1127-76-0	Naphthalene, 1-ethyl-	13.84	290	JN
08	582-16-1	Naphthalene, 2,7-dimethyl-	13.99	360	JN
09	581-40-8	Naphthalene, 2,3-dimethyl-	14.19	800	JN
10	571-61-9	Naphthalene, 1,5-dimethyl-	14.23	550	JN
11	571-58-4	Naphthalene, 1,4-dimethyl-	14.44	570	JN
12		UNKNOWN	15.05	240	J
13	2027-17-0	Naphthalene, 2-(1-methylethyl)-	15.24	210	JN
14	2245-38-7	Naphthalene, 1,6,7-trimethyl-	15.51	230	JN
15	2131-42-2	Naphthalene, 1,4,6-trimethyl-	15.58	370	JN
16	829-26-5	Naphthalene, 2,3,6-trimethyl-	15.99	450	JN
17	605-39-0	2,2'-Dimethylbiphenyl	16.09	210	JN
18	7320-53-8	Dibenzofuran, 4-methyl-	16.67	190	JN
19	947-91-1	Benzeneacetaldehyde, .alpha.-phen	17.14	390	JN
20		UNKNOWN	17.39	260	J
21		UNKNOWN	17.45	1200	J
22		UNKNOWN	17.95	520	J
23		UNKNOWN	19.05	260	J
24	779-02-2	Anthracene, 9-methyl-	19.91	270	JN
25					
26					
27					
28					
29					
30					
	E966796[2]	*Total Alkanes*	N/A	1200	

[2] EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0027

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA796.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 29.0 Decanted: (Y/N) N Date Received: 04/12/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/05/2006

GPC Cleanup: (Y/N) Y pH: 8.3 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	14.11	170	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0028

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA797.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12.0 Decanted: (Y/N) N Date Received: 04/12/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/05/2006

GPC Cleanup: (Y/N) Y pH: 8.5 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	111-06-8	Hexadecanoic acid, butyl ester	22.19	1400	JN
02		UNKNOWN	22.29	85	J
03		UNKNOWN	23.88	78	J
04		UNKNOWN	26.66	420	J
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0029

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA812.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 41.0 Decanted: (Y/N) N Date Received: 04/12/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/08/2006

GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	17.45	190	J
02		UNKNOWN	21.83	300	J
03	238-84-6	11H-Benzo[a]fluorene	22.65	190	JN
04		UNKNOWN	23.15	190	J
05		UNKNOWN	24.20	180	J
06	205-99-2	Benz[e]acephenanthrylene	27.62	330	JN
07		UNKNOWN	30.90	290	J
08		UNKNOWN	32.25	1200	J
09		UNKNOWN	33.19	300	J
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	1400	

[2] EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0030

Lab Name: Envircsystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-19

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA815.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 48.0 Decanted: (Y/N) N Date Received: 04/12/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/08/2006

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	95-63-6	Benzene, 1,2,4-trimethyl-	7.78	1100	JN
02	620-14-4	Benzene, 1-ethyl-3-methyl-	8.27	1200	JN
03	493-02-7	Naphthalene, decahydro-, trans-	8.83	1000	JN
04	90-12-0	Naphthalene, 1-methyl-	12.75	3800	JN
05		UNKNOWN	13.50	1100	J
06	1127-76-0	Naphthalene, 1-ethyl-	13.90	1200	JN
07	581-42-0	Naphthalene, 2,6-dimethyl-	13.99	2000	JN
08	581-40-8	Naphthalene, 2,3-dimethyl-	14.20	4200	JN
09	575-37-1	Naphthalene, 1,7-dimethyl-	14.24	3200	JN
10	575-43-9	Naphthalene, 1,6-dimethyl-	14.50	1100	JN
11	629-62-9	Pentadecane	15.06	1300	JN
12	2245-38-7	Naphthalene, 1,6,7-trimethyl-	15.52	1100	JN
13	2131-42-2	Naphthalene, 1,4,6-trimethyl-	15.78	1700	JN
14	605-39-0	2,2'-Dimethylbiphenyl	16.10	1100	JN
15	7320-53-8	Dibenzofuran, 4-methyl-	16.68	1200	JN
16	947-91-1	Benzeneacetaldehyde, .alpha.-phen	17.15	3000	JN
17		UNKNOWN	17.95	2700	J
18		UNKNOWN	18.01	1700	J
19	613-12-7	Anthracene, 2-methyl-	19.72	2700	JN
20	610-48-0	Anthracene, 1-methyl-	19.92	2800	JN
21	111-06-8	Hexadecanoic acid, butyl ester	22.20	860	JN
22	82-05-3	7H-Benz[de]anthracen-7-one	23.89	890	JN
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	11000	

[2] EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0030DL

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-19RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA817.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 48.0 Decanted: (Y/N) N Date Received: 04/12/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/08/2006

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
100-52-7	Benzaldehyde	1600	U
108-95-2	Phenol	1600	U
111-44-4	Bis(2-chloroethyl)ether	1600	U
95-57-8	2-Chlorophenol	1600	U
95-48-7	2-Methylphenol	1600	U
108-60-1	2,2'-Oxybis(1-chloropropane)	1600	U
98-86-2	Acetophenone	700	JD
106-44-5	4-Methylphenol	1600	U
621-64-7	N-Nitroso-di-n-propylamine	1600	U
67-72-1	Hexachloroethane	1600	U
98-95-3	Nitrobenzene	1600	U
78-59-1	Isophorone	1600	U
88-75-5	2-Nitrophenol	1600	U
105-67-9	2,4-Dimethylphenol	1600	U
111-91-1	Bis(2-chloroethoxy)methane	1600	U
120-83-2	2,4-Dichlorophenol	1600	U
91-20-3	Naphthalene	1600	D
106-47-8	4-Chloroaniline	1600	U
87-68-3	Hexachlorobutadiene	1600	U
105-60-2	Caprolactam	1600	U
59-50-7	4-Chloro-3-methylphenol	1600	U
91-57-6	2-Methylnaphthalene	6000	D
77-47-4	Hexachlorocyclopentadiene	1600	U
88-06-2	2,4,6-Trichlorophenol	1600	U
95-95-4	2,4,5-Trichlorophenol	1600	U
92-52-4	1,1'-Biphenyl	1600	U
91-58-7	2-Chloronaphthalene	1600	U
88-74-4	2-Nitroaniline	3200	U
131-11-3	Dimethylphthalate	1600	U
606-20-2	2,6-Dinitrotoluene	1600	U
208-96-8	Acenaphthylene	530	JD
99-09-2	3-Nitroaniline	3200	U
83-32-9	Acenaphthene	1600	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0030DL

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-19RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA817.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 48.0 Decanted: (Y/N) N Date Received: 04/12/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/08/2006

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	3200	U
100-02-7	4-Nitrophenol	3200	U
132-64-9	Dibenzofuran	1800	D
121-14-2	2,4-Dinitrotoluene	1600	U
84-66-2	Diethylphthalate	1600	U
86-73-7	Fluorene	760	JD
7005-72-3	4-Chlorophenyl-phenylether	1600	U
100-01-6	4-Nitroaniline	3200	U
534-52-1	4,6-Dinitro-2-methylphenol	3200	U
86-30-6	N-Nitrosodiphenylamine[1]	1600	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1600	U
101-55-3	4-Bromophenyl-phenylether	1600	U
118-74-1	Hexachlorobenzene	1600	U
1912-24-9	Atrazine	1600	U
87-86-5	Pentachlorophenol	3200	U
85-01-8	Phenanthrene	11000	D
120-12-7	Anthracene	1800	D
86-74-8	Carbazole	420	JD
84-74-2	Di-n-butylphthalate	1600	U
206-44-0	Fluoranthene	16000	D
129-00-0	Pyrene	9500	D
85-68-7	Butylbenzylphthalate	1600	U
91-94-1	3,3'-Dichlorobenzidine	1600	U
56-55-3	Benzo (a) anthracene	7400	D
218-01-9	Chrysene	6900	D
117-81-7	Bis(2-ethylhexyl) phthalate	1600	U
117-84-0	Di-n-octylphthalate	1600	U
205-99-2	Benzo (b) fluoranthene	5400	D
207-08-9	Benzo (k) fluoranthene	5900	D
50-32-8	Benzo (a) pyrene	4700	D
193-39-5	Indeno (1,2,3-cd) pyrene	2900	D
53-70-3	Dibenzo (a,h) anthracene	1100	JD
191-24-2	Benzo (g,h,i) perylene	530	JD
58-90-2	2,3,4,6-Tetrachlorophenol	1600	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0030DL

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-19RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA817.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 48.0 Decanted: (Y/N) N Date Received: 04/12/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/08/2006

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 5.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	90-12-0	Naphthalene, 1-methyl-	12.74	5100	JDN
02	1127-76-0	Naphthalene, 1-ethyl-	13.89	1300	JDN
03	575-37-1	Naphthalene, 1,7-dimethyl-	13.99	2500	JDN
04	581-40-8	Naphthalene, 2,3-dimethyl-	14.19	5600	JDN
05	582-16-1	Naphthalene, 2,7-dimethyl-	14.23	3900	JDN
06		UNKNOWN	15.00	1500	JD
07		UNKNOWN	15.06	1600	JD
08		UNKNOWN	15.45	1500	JD
09	2245-38-7	Naphthalene, 1,6,7-trimethyl-	15.58	2000	JDN
10	2131-42-2	Naphthalene, 1,4,6-trimethyl-	15.78	1900	JDN
11	829-26-5	Naphthalene, 2,3,6-trimethyl-	15.99	2500	JDN
12	1812-51-7	1,1'-Biphenyl, 2-ethyl-	16.09	1300	JDN
13	7320-53-8	Dibenzofuran, 4-methyl-	16.67	1600	JDN
14	947-91-1	Benzeneacetaldehyde, .alpha.-phen	17.14	3300	JDN
15		UNKNOWN	17.39	1700	JD
16		UNKNOWN	17.95	2900	JD
17	486-25-9	9H-Fluoren-9-one	18.00	2100	JDN
18	610-48-0	Anthracene, 1-methyl-	19.65	1900	JDN
19	613-12-7	Anthracene, 2-methyl-	19.72	2900	JDN
20	239-30-5	Benzo[b]naphtho[2,1-d]furan	21.84	3700	JDN
21	82-05-3	7H-Benz[de]anthracen-7-one	23.88	3600	JDN
22		UNKNOWN	29.59	7900	JD
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	15000	

[2] EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0031

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-20

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA814.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 40.0 Decanted: (Y/N) N Date Received: 04/12/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/08/2006

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	7785-70-8	1R-.alpha.-Pinene	6.74	180	JN
02		UNKNOWN	7.32	290	J
03	555-10-2	.beta.-Phellandrene	7.44	1600	JN
04		UNKNOWN	10.62	230	J
05	90-12-0	Naphthalene, 1-methyl-	12.74	190	JN
06	16409-44-2	2,6-Octadien-1-ol, 3,7-dimethyl-	13.59	140	JN
07	581-40-8	Naphthalene, 2,3-dimethyl-	14.18	250	JN
08	581-42-0	Naphthalene, 2,6-dimethyl-	14.23	190	JN
09	573-98-8	Naphthalene, 1,2-dimethyl-	14.44	160	JN
10		UNKNOWN	15.05	150	J
11	465-28-1	Carotol	16.42	420	JN
12	7320-53-8	Dibenzofuran, 4-methyl-	16.82	220	JN
13	486-25-9	9H-Fluoren-9-one	17.99	180	JN
14	832-69-9	Phenanthrene, 1-methyl-	19.90	340	JN
15	57-10-3	n-Hexadecanoic acid	20.08	390	JN
16	5737-13-3	Cyclopenta(def)phenanthrenone	21.14	200	JN
17	243-42-5	Benzo[b]naphtho[2,3-d]furan	21.84	500	JN
18		UNKNOWN	22.19	340	J
19	243-17-4	11H-Benzo[b]fluorene	22.66	460	JN
20	2381-21-7	Pyrene, 1-methyl-	23.09	330	JN
21	82-05-3	7H-Benz[de]anthracen-7-one	23.87	400	JN
22		UNKNOWN	24.20	550	J
23	192-97-2	Benzo[e]pyrene	27.29	820	JN
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	3100	

[2] EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0005MS

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D62001-MS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA798.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13.0 Decanted: (Y/N) N Date Received: 04/12/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/20/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/05/2006

GPC Cleanup: (Y/N) Y pH: 8.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	1100	
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	1100	
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	1100	
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	1200	
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	1200	

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0005MS

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D62001-MS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA798.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13.0 Decanted: (Y/N) N Date Received: 04/12/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/20/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/05/2006

GPC Cleanup: (Y/N) Y pH: 8.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	1200	
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	1200	
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	1300	
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	1300	
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo (a) anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl) phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo (b) fluoranthene	200	U
207-08-9	Benzo (k) fluoranthene	200	U
50-32-8	Benzo (a) pyrene	200	U
193-39-5	Indeno (1,2,3-cd) pyrene	200	U
53-70-3	Dibenzo (a,h) anthracene	200	U
191-24-2	Benzo (g,h,i) perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1]Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0005MSD

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D62001-MSD1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA799.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13.0 Decanted: (Y/N) N Date Received: 04/12/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/20/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/05/2006

GPC Cleanup: (Y/N) Y pH: 8.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	1200	
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	1100	
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	58	J
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	1100	
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	1200	
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	1200	

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0005MSD

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: OD62001-MSD1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA799.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13.0 Decanted: (Y/N) N Date Received: 04/12/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/20/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/05/2006

GPC Cleanup: (Y/N) Y pH: 8.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	1300	
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	1300	
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	1400	
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	1100	
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo (a) anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl) phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo (b) fluoranthene	200	U
207-08-9	Benzo (k) fluoranthene	200	U
50-32-8	Benzo (a) pyrene	200	U
193-39-5	Indeno (1,2,3-cd) pyrene	200	U
53-70-3	Dibenzo (a,h) anthracene	200	U
191-24-2	Benzo (g,h,i) perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK11

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D62001-BLK1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA772.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/20/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/04/2006

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
100-52-7	Benzaldehyde	170	U
108-95-2	Phenol	170	U
111-44-4	Bis(2-chloroethyl)ether	170	U
95-57-8	2-Chlorophenol	170	U
95-48-7	2-Methylphenol	170	U
108-60-1	2,2'-Oxybis(1-chloropropane)	170	U
98-86-2	Acetophenone	170	U
106-44-5	4-Methylphenol	170	U
621-64-7	N-Nitroso-di-n-propylamine	170	U
67-72-1	Hexachloroethane	170	U
98-95-3	Nitrobenzene	170	U
78-59-1	Isophorone	170	U
88-75-5	2-Nitrophenol	170	U
105-67-9	2,4-Dimethylphenol	170	U
111-91-1	Bis(2-chloroethoxy)methane	170	U
120-83-2	2,4-Dichlorophenol	170	U
91-20-3	Naphthalene	170	U
106-47-8	4-Chloroaniline	170	U
87-68-3	Hexachlorobutadiene	170	U
105-60-2	Caprolactam	170	U
59-50-7	4-Chloro-3-methylphenol	170	U
91-57-6	2-Methylnaphthalene	170	U
77-47-4	Hexachlorocyclopentadiene	170	U
88-06-2	2,4,6-Trichlorophenol	170	U
95-95-4	2,4,5-Trichlorophenol	170	U
92-52-4	1,1'-Biphenyl	170	U
91-58-7	2-Chloronaphthalene	170	U
88-74-4	2-Nitroaniline	330	U
131-11-3	Dimethylphthalate	170	U
606-20-2	2,6-Dinitrotoluene	170	U
208-96-8	Acenaphthylene	170	U
99-09-2	3-Nitroaniline	330	U
83-32-9	Acenaphthene	170	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK11

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D62001-BLK1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA772.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/20/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/04/2006

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	330	U
100-02-7	4-Nitrophenol	330	U
132-64-9	Dibenzofuran	170	U
121-14-2	2,4-Dinitrotoluene	170	U
84-66-2	Diethylphthalate	170	U
86-73-7	Fluorene	170	U
7005-72-3	4-Chlorophenyl-phenylether	170	U
100-01-6	4-Nitroaniline	330	U
534-52-1	4,6-Dinitro-2-methylphenol	330	U
86-30-6	N-Nitrosodiphenylamine[1]	170	U
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U
101-55-3	4-Bromophenyl-phenylether	170	U
118-74-1	Hexachlorobenzene	170	U
1912-24-9	Atrazine	170	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	170	U
120-12-7	Anthracene	170	U
86-74-8	Carbazole	170	U
84-74-2	Di-n-butylphthalate	170	U
206-44-0	Fluoranthene	170	U
129-00-0	Pyrene	170	U
85-68-7	Butylbenzylphthalate	170	U
91-94-1	3,3'-Dichlorobenzidine	170	U
56-55-3	Benzo (a) anthracene	170	U
218-01-9	Chrysene	170	U
117-81-7	Bis(2-ethylhexyl) phthalate	170	U
117-84-0	Di-n-octylphthalate	170	U
205-99-2	Benzo (b) fluoranthene	170	U
207-08-9	Benzo (k) fluoranthene	170	U
50-32-8	Benzo (a) pyrene	170	U
193-39-5	Indeno (1,2,3-cd) pyrene	170	U
53-70-3	Dibenzo (a,h) anthracene	170	U
191-24-2	Benzo (g,h,i) perylene	170	U
58-90-2	2,3,4,6-Tetrachlorophenol	170	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLK11

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D62001-BLK1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA772.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/20/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/04/2006

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	6.42	91	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK15

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D62401-BLK1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA775.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/04/2006

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
100-52-7	Benzaldehyde	170	U
108-95-2	Phenol	170	U
111-44-4	Bis(2-chloroethyl)ether	170	U
95-57-8	2-Chlorophenol	170	U
95-48-7	2-Methylphenol	170	U
108-60-1	2,2'-Oxybis(1-chloropropane)	170	U
98-86-2	Acetophenone	170	U
106-44-5	4-Methylphenol	170	U
621-64-7	N-Nitroso-di-n-propylamine	170	U
67-72-1	Hexachloroethane	170	U
98-95-3	Nitrobenzene	170	U
78-59-1	Isophorone	170	U
88-75-5	2-Nitrophenol	170	U
105-67-9	2,4-Dimethylphenol	170	U
111-91-1	Bis(2-chloroethoxy)methane	170	U
120-83-2	2,4-Dichlorophenol	170	U
91-20-3	Naphthalene	170	U
106-47-8	4-Chloroaniline	170	U
87-68-3	Hexachlorobutadiene	170	U
105-60-2	Caprolactam	170	U
59-50-7	4-Chloro-3-methylphenol	170	U
91-57-6	2-Methylnaphthalene	170	U
77-47-4	Hexachlorocyclopentadiene	170	U
88-06-2	2,4,6-Trichlorophenol	170	U
95-95-4	2,4,5-Trichlorophenol	170	U
92-52-4	1,1'-Biphenyl	170	U
91-58-7	2-Chloronaphthalene	170	U
88-74-4	2-Nitroaniline	330	U
131-11-3	Dimethylphthalate	170	U
606-20-2	2,6-Dinitrotoluene	170	U
208-96-8	Acenaphthylene	170	U
99-09-2	3-Nitroaniline	330	U
83-32-9	Acenaphthene	170	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK15

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D62401-BLK1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA775.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/04/2006

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	330	U
100-02-7	4-Nitrophenol	330	U
132-64-9	Dibenzofuran	170	U
121-14-2	2,4-Dinitrotoluene	170	U
84-66-2	Diethylphthalate	170	U
86-73-7	Fluorene	170	U
7005-72-3	4-Chlorophenyl-phenylether	170	U
100-01-6	4-Nitroaniline	330	U
534-52-1	4,6-Dinitro-2-methylphenol	330	U
86-30-6	N-Nitrosodiphenylamine[1]	170	U
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U
101-55-3	4-Bromophenyl-phenylether	170	U
118-74-1	Hexachlorobenzene	170	U
1912-24-9	Atrazine	170	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	170	U
120-12-7	Anthracene	170	U
86-74-8	Carbazole	170	U
84-74-2	Di-n-butylphthalate	170	U
206-44-0	Fluoranthene	170	U
129-00-0	Pyrene	170	U
85-68-7	Butylbenzylphthalate	170	U
91-94-1	3,3'-Dichlorobenzidine	170	U
56-55-3	Benzo (a) anthracene	170	U
218-01-9	Chrysene	170	U
117-81-7	Bis(2-ethylhexyl) phthalate	170	U
117-84-0	Di-n-octylphthalate	170	U
205-99-2	Benzo (b) fluoranthene	170	U
207-08-9	Benzo (k) fluoranthene	170	U
50-32-8	Benzo (a) pyrene	170	U
193-39-5	Indeno (1,2,3-cd) pyrene	170	U
53-70-3	Dibenzo (a,h) anthracene	170	U
191-24-2	Benzo (g,h,i) perylene	170	U
58-90-2	2,3,4,6-Tetrachlorophenol	170	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLK15

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: CD62401-BLK1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA775.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/04/2006

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK19

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0E60101-BLK1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA774.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/01/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/04/2006

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
100-52-7	Benzaldehyde	170	U
108-95-2	Phenol	170	U
111-44-4	Bis(2-chloroethyl)ether	170	U
95-57-8	2-Chlorophenol	170	U
95-48-7	2-Methylphenol	170	U
108-60-1	2,2'-Oxybis(1-chloropropane)	170	U
98-86-2	Acetophenone	170	U
106-44-5	4-Methylphenol	170	U
621-64-7	N-Nitroso-di-n-propylamine	170	U
67-72-1	Hexachloroethane	170	U
98-95-3	Nitrobenzene	170	U
78-59-1	Isophorone	170	U
88-75-5	2-Nitrophenol	170	U
105-67-9	2,4-Dimethylphenol	170	U
111-91-1	Bis(2-chloroethoxy)methane	170	U
120-83-2	2,4-Dichlorophenol	170	U
91-20-3	Naphthalene	170	U
106-47-8	4-Chloroaniline	170	U
87-68-3	Hexachlorobutadiene	170	U
105-60-2	Caprolactam	170	U
59-50-7	4-Chloro-3-methylphenol	170	U
91-57-6	2-Methylnaphthalene	170	U
77-47-4	Hexachlorocyclopentadiene	170	U
88-06-2	2,4,6-Trichlorophenol	170	U
95-95-4	2,4,5-Trichlorophenol	170	U
92-52-4	1,1'-Biphenyl	170	U
91-58-7	2-Chloronaphthalene	170	U
88-74-4	2-Nitroaniline	330	U
131-11-3	Dimethylphthalate	170	U
606-20-2	2,6-Dinitrotoluene	170	U
208-96-8	Acenaphthylene	170	U
99-09-2	3-Nitroaniline	330	U
83-32-9	Acenaphthene	170	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK19

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0E60101-BLK1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA774.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/01/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/04/2006

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	330	U
100-02-7	4-Nitrophenol	330	U
132-64-9	Dibenzofuran	170	U
121-14-2	2,4-Dinitrotoluene	170	U
84-66-2	Diethylphthalate	170	U
86-73-7	Fluorene	170	U
7005-72-3	4-Chlorophenyl-phenylether	170	U
100-01-6	4-Nitroaniline	330	U
534-52-1	4,6-Dinitro-2-methylphenol	330	U
86-30-6	N-Nitrosodiphenylamine[1]	170	U
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U
101-55-3	4-Bromophenyl-phenylether	170	U
118-74-1	Hexachlorobenzene	170	U
1912-24-9	Atrazine	170	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	170	U
120-12-7	Anthracene	170	U
86-74-8	Carbazole	170	U
84-74-2	Di-n-butylphthalate	170	U
206-44-0	Fluoranthene	170	U
129-00-0	Pyrene	170	U
85-68-7	Butylbenzylphthalate	170	U
91-94-1	3,3'-Dichlorobenzidine	170	U
56-55-3	Benzo (a) anthracene	170	U
218-01-9	Chrysene	170	U
117-81-7	Bis(2-ethylhexyl) phthalate	170	U
117-84-0	Di-n-octylphthalate	170	U
205-99-2	Benzo (b) fluoranthene	170	U
207-08-9	Benzo (k) fluoranthene	170	U
50-32-8	Benzo (a) pyrene	170	U
193-39-5	Indeno (1,2,3-cd) pyrene	170	U
53-70-3	Dibenzo (a,h) anthracene	170	U
191-24-2	Benzo (g,h,i) perylene	170	U
58-90-2	2,3,4,6-Tetrachlorophenol	170	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLK19

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0001

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0E60101-BLK1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA774.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

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

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/01/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/04/2006

GPC Cleanup: (Y/N) Y pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E0061 CERCLIS No: ILD 980794929

Case No: 35339 Site Name/Location: Dunavon Oil (IL)

Contractor or EPA Lab: Envirsystems Data User: IEPA

No. of Samples: 80 Date Sampled or Date Received: 5/25/06

Have Chain-of-Custody records been received? Yes X No ____
Have traffic reports or packing lists been received? Yes X No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

____ ____ ____ ____
____ ____ ____ ____

Are basic data forms in? Yes X No ____
No of samples claimed: ____ No. of samples received: ____

Received by: Adaryjohnson Date: 5/25/06

Received by LSSS: Adaryjohnson Date: 5/25/06

Review started: 5/30/06 Reviewer Signature: Richard A. Baltus

Total time spent on review: 29 Date review completed: 7 June 2006

Copied by: A.C. Harvey Date: July 5, 2006

Mailed to user by: Adaryjohnson Date: 6 July 06

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

____

____

Received by Data Mgmt. Coordinator for Files. Date: ____

DATE: July 6, 2006

IEPA
Attn: Mr. Bob Casper
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

SITE NAME: Dunavan Oil (IL)

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
35229	Envirosystems	10	E0010	water

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: **U.S. EPA - Region 5**
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat Johnson
Data Coordinator
ESAT Region 5 **TechLaw**

JUL 10 2006

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: June 1, 2006

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

for Steve Ostrodka
Richard L Byrick
6/30/06

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE Name: Dunavan Oil (IL)

Case Number: 35229 SDG Number: E0010

Number and Type of Samples: 10 (waters) (VOA, VOA (SIM), SV, SV(SIM)

Sample Numbers: E0010, E0011, E0013, E0020, E0022 through E0026 and E0035

Laboratory: Envirosystems, Inc. Hrs for Review:

Following are our findings:

the data are usable and acceptable with the qualifications described in the attached narrative.

Richard L Byrick

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0010
Laboratory: Envirosystems, Inc.

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Ten (10) water samples, numbered E0010, E0011, E0013, E0020, E0022 through E0026 and E0035 were collected on April 5, 11 to 13, 2006. The lab received the samples on April 13 and 14, 2006 in good condition except E0024 had 1 broken bottle and E0025 had 1 broken vial. The following table shows which samples were analyzed for each fraction. All samples were analyzed according to CLP SOW SOM01.1 (5/2005). The samples were validated according to USEPA CLP National Functional Guidelines for Superfund Organic Methods Data Review (1/2005).

Sample	Organic Compounds			
	Volatile Trace	Volatile Trace SIM	Semivolatile	Semivolatile SIM
E0010	X	X	X	X
E0011	X	X	X	X
E0013	X	X		
E0020	X	X	X	X
E0022	X	X	X	X
E0023	X	X	X	X
E0024	X	X		
E0025	X	X	X	X
E0026		X		
E0035	X	X	X	X

Sample E0013 and E0026 are identified as Trip Blanks. CADRE identified sample E0022 as a Field Blank. Samples E0022 and E0023 are not included on the Chain of Custody form. CADRE assigned collection dates of April 12, 2006 for samples E0022 and E0023. These dates will be used for the data validation process. There are no Field Duplicates with this data package.

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0010
Laboratory: Envirosystems, Inc.

1. HOLDING TIME

The following Trace Volatile samples exceeded the holding time of 14 days from date of collect to date analyzed. Hits are qualified "J" and non-detects are qualified "UJ".

E0013, E0025

The following Trace SIM Volatile samples exceeded the holding time of 14 days and less than 28 days from date of collect to date analyzed; therefore, hits are qualified "J" and non-detects qualified "UJ".

E0010, E0011, E0013, E0020, E0022, E0023, E0024, E0025, E0026

The following Semivolatile samples were extracted greater than 7 days and less than 14 days from collection. Hit are qualified "J" and non-detects are qualified "UJ".

E0010, E0011, E0020, E0020MS, E0020MSD, E0022, E0023

The following Semivolatile samples were extracted greater than 14 days from collection. Hit are qualified "J" and non-detects are qualified "R".

E0025

The following Semivolatile SIM samples were extracted greater than 7 days and less than 14 days from collection. Hit are qualified "J" and non-detects are qualified "UJ".

E0010, E0011, E0020, E0020MS, E0020MSD, E0022, E0023, E0035

The following Semivolatile SIM samples were extracted greater than 14 days from collection. Hit are qualified "J" and non-detects are qualified "R".

E0025

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No defects were found.

3. CALIBRATION

The following Trace Volatile samples are associated with an initial calibration with a relative response factor (RRFs) below the primary criteria (RRF 0.005). Hits are qualified "J".

1,4-Dioxane

E0024

The following Trace Volatile samples are associated with an initial calibration with a relative response factor (RRFs) below the primary criteria (RRF 0.005). Non-detects are qualified "R".

1,4-Dioxane
E0010, E0011, E0013, E0020, E0022, E0023, E0025, E0035, VBLKHT, VHBLKHT

The following Trace Volatile samples are associated with the opening continuing calibration whose corresponding initial calibration has relative response factors (RRFs) below the primary criteria (RRF 0.005). Hits are flagged "J".

1,4-Dioxane
E0024

The following Trace Volatile samples are associated with the opening continuing calibration whose corresponding initial calibration has relative response factors (RRFs) below the primary criteria (RRF 0.005). There are no detects. Non-detects are qualified "R".

1,4-Dioxane
E0010, E0011, E0013, E0020, E0022, E0023, E0025, E0035, VBLKHT, VHBLKHT

The following Trace Volatile samples are associated with the opening continuing calibration percent difference (%D) outside primary criteria. There are no detects in the following samples. Non-detects are qualified "UJ".

Acetone
E0010, E0011, E0013, E0020, E0022, E0023, E0024, E0025, E0035, VBLKHT, VHBLKHT

The following Trace Volatile samples are associated with an initial calibration in which a SMC/DMC did not meet relative response factor (RRF) criteria. No action is taken on the DMC %RSD and RRF data alone.

1,4-Dioxane-d8
E0010, E0011, E0013, E0020, E0022, E0023, E0024, E0025, E0035, VBLKHT, VHBLKHT

The following Trace Volatile samples are associated with a continuing calibration in which a SMC/DMC exceeded percent difference (%D) criteria. No action is taken on the DMC %RSD and RRF data alone.

Trans-1,3-Dichloropropene-d4, 1,4-Dioxane-d8
E0010, E0011, E0013, E0020, E0022, E0023, E0024, E0025, E0035, VBLKHT, VHBLKHT

The following Trace SIM Volatile samples are associated with the opening continuing calibration whose corresponding initial calibration has relative response factors (RRFs) below the primary criteria (RRF 0.005). There are no detects. Non-detects are qualified "R".

1,4-Dioxane
E0010, E0011, E0013, E0020, E0022, E0023, E0024, E0025, E0026, E0035, VBLKHV, VHBLKHV

The following Trace SIM Volatile samples are associated with an initial calibration in which a SMC/DMC did not meet relative response factor (RRF) criteria. No action is taken on the DMC %RSD and RRF data alone.

1,4-Dioxane-d8
E0010, E0011, E0013, E0020, E0022, E0023, E0024, E0025, E0026, E0035, VBLKHV, VHBLKHV

The following Trace SIM Volatile samples are associated with a continuing calibration in which a SMC/DMC exceeded percent difference (%D) criteria. No action is taken on the DMC %RSD and RRF data alone.

1,4-Dioxane-d8
E0010, E0011, E0013, E0020, E0022, E0023, E0024, E0025, E0026, E0035, VBLKHV, VHBLKHV

The following Semivolatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria (25%). Detects for these compounds were not reported in the samples and non-detected results should be qualified "UJ".

Indeno (1,2,3-cd) pyrene (25.7%), **Dibenzo (a,h) anthracene** (27.4%)
E0010, E0011, E0020, E0020MS, E0020MSD, E0022, E0023, E0035, SBLK13

Detects for these compounds were not reported in sample E0025 and non-detects should be qualified "R" because of holding time.

The following Semivolatile samples are associated with a opening continuing calibration percent difference (%D) outside primary criteria (25%). Detects for these compounds were not reported in the samples and non-detected results should be qualified "UJ".

Indeno (1,2,3-cd) pyrene (35.6%), **Dibenzo (a,h) anthracene** (37.7%), **Benzo (g,h,i) perylene** (37.1%)

E0010, E0011, E0020, E0020MS, E0020MSD, E0022, E0023, E0035, SBLK13

Detects for these compounds were not reported in sample E0025 and non-detects should be qualified "R" because of holding time.

The following Semivolatile samples are associated with a closing continuing calibration percent difference (%D) outside primary criteria (50%). There are no detects. Non-detects are qualified "UJ".

2,4-Dinitrophenol (-51.0%)
E0010, E0011, E0020, E0020MS, E0020MSD, E0022, E0023, E0035, SBLK13

Detects for these compounds were not reported in sample E0025 and non-detects should be qualified "R" because of holding time.

The following Semivolatile SIM samples are associated with an initial calibration with a relative response factor (RRFs) outside the primary criteria (RRF 0.05). There are no detects. Non-detects are qualified "R".

Pentachlorophenol (RRF 0.039)
E0010, E0011, E0020, E0020MS, E0020MSD, E0022, E0023, E0025, E0035, SBLK17

The following Semivolatile SIM samples are associated with a continuing calibration with a relative response factor (RRFs) outside the primary criteria. There are no detects. Non-detects are qualified "R".

Pentachlorophenol
E0010, E0011, E0020, E0020MS, E0020MSD, E0025, E0035

4. BLANKS

Sample VBLKHT is a Trace Volatile Method Blank. Samples with TIC concentrations less than five times (5X) the Method Blank TIC concentrations are qualified (U) as a blank contamination.

E0010, E0011, E0013, E0022, E0023, E0025, E0035

The following volatile samples are associated with a contaminated storage blank. Hits are qualified "J".

Methylene Chloride
E0022

Cis-1,3-Dichloropropene
E0022

The Trace Volatile Field Blank E0022 contains Methylene Chloride at 0.68 µg/L, cis-1,3-Dichloropropene at 0.21 µg/L, Toluene at 0.90 µg/L and m,p-Xylene at 0.27 µg/L. The following Volatile samples have analyte concentrations reported above the CRQL and less than or equal to two times (2X) the CRQL. Hits are qualified "U" and non-detects are not flagged.

Methylene Chloride
E0011, E0020, E0023, E0024

Methylene Chloride in samples E0013 and E0025 are qualified "UJ" because of the holding time.

The following Trace Volatile samples have analyte concentrations reported below the CRQL and less than or equal to the Field Blank. Hits are elevated to the CRQL and qualified "U" and non-detects are not flagged.

Methylene Chloride
E0010, E0035

Cis-1,3-Dichloropropene
E0013, E0020, E0024

Cis-1,3-Dichloropropene in sample E0013 is qualified "UJ" because of holding time.

The Trace Volatile Trip Blank E0013 contains 1,2-Dibromoethane at 0.098 µg/L. The samples associated with E0013 were E0010, E0011 and E0020. The following Trace Volatile SIM samples have analyte concentrations reported above the CRQL and less than or equal to five times (5X) the Trip Blank E0013 concentration. Hits are qualified "U" and non-detects are not flagged.

1,2-Dibromoethane
E0010

The following Trace Volatile SIM samples have analyte concentrations reported above the CRQL and less than or equal to five times (5X) the Method Blank concentration. Non-detects are qualified "R" because of low RRF in calibration.

1,4-Dioxane
E0010, E0011, E0013, E0020, E0022, E0023, E0024, E0025, E0026, E0035, VHBLKHV

The Trace Volatile SIM Trip Blank E0026 contains 1,2-Dibromoethane at 0.12 µg/L and 1,2-Dibromo-3-chloropropane at 0.089 µg/L. The samples associated with E0026 were E0022, E0023, E0024, E0025 and E0035.

The following Trace Volatile SIM samples have analyte concentrations reported above the CRQL and less than or equal to five times (5X) the Trip Blank E0026 concentration. Hits are qualified "U" and non-detects are not flagged.

1,2-Dibromo-3-chloropropane
E0035

The following Trace Volatile SIM samples have analyte concentrations reported below the CRQL and less than or equal to the Trip Blank E0026 concentration. Hits are elevated to the CRQL and qualified "UJ" because of holding time.

1,2-Dibromo-3-chloropropane
E0023, E0024, E0025

5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY

The following Trace Volatile samples have recoveries above the QC limit. No target analytes were detected; therefore, no action was taken.

E0010, E0025

The following Trace Volatile SIM sample has a Deuterated Monitoring Compound recovery above the QC limit. Detect was not found in the sample. Non-detect was qualified "R" because of low RRF in calibration.

1,4-Dioxane
VBLKHV

The following Trace Volatile SIM sample has recovery above the QC limit. The target analyte was not detected; therefore, no action was taken.

E0022

The following Trace Volatile SIM samples have recoveries below the QC limit and greater than 20%. There are no detects reported. Non-detects are qualified "UJ".

E0020, E0025, VHBLKHV
1,2-Dibromo-3-chloropropane

The following Trace Volatile SIM sample has a recovery below the QC limit and less than 20%. There are no detects reported. Non-detects are qualified "R" because of low RRF in calibration.

E0024
1,4-Dioxane

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The following Semivolatile SIM samples have recoveries above the QC criteria (E0020MS=240; E0020MSD=210). The presence of Pentachlorophenol in the unspiked sample E0020 is not detected; therefore, E0020 is qualified "R" because of low RRF in calibration.

E0020MS, E0020MSD
Pentachlorophenol

7. FIELD BLANK AND FIELD DUPLICATE

Sample E0013 and E0026 are identified as Trip Blanks. CADRE identified sample E0022 as a Field Blank. The following table shows the results.

TRIP BLANKS		
Sample	Trace Volatile	Volatile SIM
E0013	2-Hexanone at 3.3 µg/L **(J)**	1,2-Dibromoethane at 0.098 µg/L
E0026		1,2-Dibromoethane at 0.12 µg/L
		1,2-Dibromo-3-chloropropane at 0.089 µg/L

FIELD BLANK E0022
Trace Volatile
Methylene Chloride at 0.68 µg/L
Cis-1,3-Dichloropropene at 0.21 µg/L **(J)**
Toluene at 0.90 µg/L
M,p-Xylene at 0.27 µg/L **(J)**

Results are not qualified based upon the results of the field duplicates.

8. INTERNAL STANDARDS

No defects were found.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, VOA SIM, SVOA, SVOA SIM compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E0013
2-Hexanone

E0022
Cis-1,3-Dichloropropene, m,p-Xylene

E0024
1,4-Dioxane, 2-Hexanone

E0035
Chloromethane

The following Semivolatile SIM samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E0020
Naphthalene, 2-Methylnaphthalene

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

12. ADDITIONAL INFORMATION

There is no Chain of Custody record for samples E0022 and E0023. CADRE identified sample E0022 as a Field sample.

The laboratory narrative document states that sample E0026 was accidentally overlooked and was not analyzed for the Trace Volatile fraction as requested.

The following Volatile samples CADRE did not enter the results on the Lotus and EDD spreadsheets. The end user should refer to the Form 1s for these results.

VHBLKHT, VBLKHT

The following Volatile SIM samples CADRE did not enter the results on the Lotus and EDD spreadsheets. The end user should refer to the Form 1s for these results.

VHBLKHV, VBLKHV

The following Semivolatile samples CADRE did not enter the results on the Lotus and EDD spreadsheets. The end user should refer to the Form 1s for these results.

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0010
Laboratory: Envirosystems, Inc.

E0020MS, E0020MSD, SBLK13

The following Semivolatile SIM samples CADRE did not enter the results on the Lotus and EDD spreadsheets. The end user should refer to the Form 1s for these results.

E0020MS, E0020MSD, SBLK17

The Volatile SIM analysis Method Blank has a DMC out of specification. Three out of 12 samples were out; therefore, this reviewer believes that the blank problem is an isolated occurrence.

CADRE did not list all the TICs for the Trace Volatile fraction. Enclosed is a hard copy of the Trace Volatile fraction that the end user should refer to.

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present.)

Analytical Results (Qualified Data)

Case #: 35229 SDG : E0010
Site : DUNAVAN OIL
Lab. : ENVSYS
Reviewer :
Date :

Number of Soil Samples 0
Number of Water Samples 9
Number of Sediment Samples : 0

Sample Number :	E0010		E0011		E0013		E0020		E0022	
Sampling Location :	G101		G102		TRIP BLANK 1		G103		FIELD BLANK	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/17/2006		4/14/2006		4/14/2006		4/14/2006		4/12/2006	
Time Sampled :										
%Moisture :	0		0		0		0		0	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
Chloromethane	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
Vinyl chloride	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
Bromomethane	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
Chloroethane	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
1,1-Dichloroethene	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
Acetone	5.0	UJ	5.0	U	5.0	UJ	5.0	UJ	5.0	UJ
Carbon Disulfide	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
Methyl acetate	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
Methylene chloride	0.50	U	0.61	U	0.63	UJ	0.51	U	0.68	J
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
Methyl tert-butyl ether	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
1,1-Dichloroethane	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
cis-1,2-Dichloroethene	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
2-Butanone	5.0	U	5.0	U	5.0	UJ	5.0	U	5.0	U
Bromochloromethane	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
Chloroform	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
1,1,1-Trichloroethane	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
Cyclohexane	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
Carbon tetrachloride	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
Benzene	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
1,2-Dichloroethane	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
1,4-Dioxane	20	R	20	R	20	R	20	R	20	R
Trichloroethene	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
Methylcyclohexane	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
Bromodichloromethane	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	U	0.50	U	0.50	UJ	0.50	U	0.21	J
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	UJ	5.0	U	5.0	U
Toluene	0.50	U	0.50	U	0.50	UJ	0.50	U	0.90	
trans-1,3-Dichloropropene	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 35229 SDG . E0010
Site : DUNAVAN OIL
Lab. : ENVSYS
Reviewer
Date :

Sample Number :	E0010		E0011		E0013		E0020		E0022	
Sampling Location	G101		G102		TRIP BLANK 1		G103		FIELD BLANK	
Matrix .	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/17/2006		4/14/2006		4/14/2006		4/14/2006		4/12/2006	
Time Sampled :										
%Moisture :	0		0		0		0		0	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
Tetrachloroethene	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
2-Hexanone	5.0	U	5.0	U	3.3	J	5.0	U	5.0	U
Dibromochloromethane	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
Chlorobenzene	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
Ethylbenzene	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
o-Xylene	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
m,p-Xylene	0.50	U	0.50	U	0.50	UJ	0.50	U	0.27	J
Styrene	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
Bromoform	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
Isopropylbenzene	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U
1,2,3-Trichlorobenzene	0.50	U	0.50	U	0.50	UJ	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 35229 SDG : E0010
Site : DUNAVAN OIL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0023		E0024		E0025		E0035			
Sampling Location :	G104		G189		G105		G106			
Matrix :	Water		Water		Water		Water			
Units :	ug/L		ug/L		ug/L		ug/L			
Date Sampled :	4/12/2006		4/12/2006		4/5/2006		4/13/2006			
Time Sampled :										
%Moisture :	0		0		0		0			
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0			
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ		
Chloromethane	0.50	U	0.50	U	0.50	UJ	0.31	J		
Vinyl chloride	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ		
Bromomethane	0.50	U	0.50	U	0.50	UJ	0.50	U		
Chloroethane	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ		
Trichlorofluoromethane	0.50	U	0.50	U	0.50	UJ	0.50	U		
1,1-Dichloroethene	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ		
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	UJ	0.50	U		
Acetone	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ		
Carbon Disulfide	0.50	U	0.50	U	0.50	UJ	0.50	U		
Methyl acetate	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ		
Methylene chloride	0.64	U	0.58	U	0.78	UJ	0.50	U		
trans-1,2-Dichloroethene	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ		
Methyl tert-butyl ether	0.50	U	0.50	U	0.50	UJ	0.50	U		
1,1-Dichloroethane	0.50	U	0.50	U	0.50	UJ	0.50	U		
cis-1,2-Dichloroethene	0.50	U	0.50	U	0.50	UJ	0.50	U		
2-Butanone	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ		
Bromochloromethane	0.50	U	0.50	U	0.50	UJ	0.50	U		
Chloroform	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ		
1,1,1-Trichloroethane	0.50	U	0.50	U	0.50	UJ	0.50	U		
Cyclohexane	0.50	U	0.50	U	0.50	UJ	0.50	U		
Carbon tetrachloride	0.50	U	0.50	U	0.50	UJ	0.50	U		
Benzene	0.50	U	0.50	U	0.50	UJ	0.50	U		
1,2-Dichloroethane	0.50	U	0.50	U	0.50	UJ	0.50	U		
1,4-Dioxane	20	R	20	R	20	R	20	R		
Trichloroethene	0.50	U	0.50	U	0.50	UJ	0.50	U		
Methylcyclohexane	0.50	U	0.50	U	0.50	UJ	0.50	U		
1,2-Dichloropropane	0.50	U	0.50	U	0.50	UJ	0.50	U		
Bromodichloromethane	0.50	U	0.50	U	0.50	UJ	0.50	U		
cis-1,3-Dichloropropene	0.50	U	0.50	U	0.50	UJ	0.50	U		
4-Methyl-2-pentanone	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ		
Toluene	0.50	U	0.50	U	0.50	UJ	0.50	U		
trans-1,3-Dichloropropene	0.50	U	0.50	U	0.50	UJ	0.50	U		

Analytical Results (Qualified Data)

Case #: 35229 SDG : E0010
Site : DUNAVAN OIL
Lab : ENVSYS
Reviewer :
Date :

Sample Number :	E0023		E0024		E0025		E0035			
Sampling Location :	G104		G189		G105		G106			
Matrix :	Water		Water		Water		Water			
Units :	ug/L		ug/L		ug/L		ug/L			
Date Sampled :	4/12/2006		4/12/2006		4/5/2006		4/13/2006			
Time Sampled :										
%Moisture :	0		0		0		0			
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0			
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	0.50	U	0.50	U	0.50	UJ	0.50	U		
Tetrachloroethene	0.50	U	0.50	U	0.50	UJ	0.50	U		
2-Hexanone	5.0	U	5.0	U	5.0	UJ	5.0	U		
Dibromochloromethane	0.50	U	0.50	U	0.50	UJ	0.50	U		
1,2-Dibromoethane	0.50	U	0.50	U	0.50	UJ	0.50	U		
Chlorobenzene	0.50	U	0.50	U	0.50	UJ	0.50	U		
Ethylbenzene	0.50	U	0.50	U	0.50	UJ	0.50	U		
o-Xylene	0.50	U	0.50	U	0.50	UJ	0.50	U		
m,p-Xylene	0.50	U	0.50	U	0.50	UJ	0.50	U		
Styrene	0.50	U	0.50	U	0.50	UJ	0.50	U		
Bromoform	0.50	U	0.50	U	0.50	UJ	0.50	U		
Isopropylbenzene	0.50	U	0.50	U	0.50	UJ	0.50	U		
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	UJ	0.50	U		
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	UJ	0.50	U		
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	UJ	0.50	U		
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	UJ	0.50	U		
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	UJ	0.50	U		
1,2,4-Trichlorobenzene	0.50	U	0.50	U	0.50	UJ	0.50	U		
1,2,3-Trichlorobenzene	0.50	U	0.50	U	0.50	UJ	0.50	U		

Analytical Results (Qualified Data)

Case #: 35229 SDG . E0010
Site : DUNAVAN OIL
Lab. : ENVSYS
Reviewer :
Date :

Number of Soil Samples . 0
Number of Water Samples : 10
Number of Sediment Samples : 0

Sample Number :	E0010		E0011		E0013		E0020		E0022	
Sampling Location :	G101		G102		TRIP BLANK 1		G103		FIELD BLANK	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/17/2006		4/14/2006		4/14/2006		4/14/2006		4/12/2006	
Time Sampled :										
%Moisture :	0		0		0		0		0	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile SIM Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,4-Dioxane	20	R	[illegible]	[illegible]	20	R	15	R	25	R
1,2-Dibromoethane	0.10	UJ	0.050	UJ	0.098	J	0.050	UJ	0.050	UJ
1,2-Dibromo-3-chloropropane	0.050	UJ	0.050	[illegible]	0.050	UJ	0.050	UJ	0.050	UJ

Analytical Results (Qualified Data)

Case #: 35229 SDG : E0010
Site : DUNAVAN OIL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0023		E0024		E0025		E0026		E0035	
Sampling Location :	G104		G189		G105		TRIP BLANK 2		G106	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/12/2006		4/12/2006		4/5/2006		4/12/2006		4/13/2006	
Time Sampled :										
%Moisture :	0		0		0		0		0	
pH :										
Dilution Factor :	1.0		1.0		1.0		1 0		1 0	
Volatile SIM Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,4-Dioxane	30	R	[illegible]	[illegible]	19	R	123	R	19	R
1,2-Dibromoethane	0.050	UJ	0.050	UJ	0 050	UJ	0.12	J	0 050	U
1,2-Dibromo-3-chloropropane	0.05	UJ	0.05	UJ	0.05	UJ	0.089	J	0 063	U

Analytical Results (Qualified Data)

Case #. 35229 SDG E0010
Site : DUNAVAN OIL
Lab. : ENVSYS
Reviewer :
Date :

Number of Soil Samples : 0
Number of Water Samples : 7
Number of Sediment Samples : 0

Sample Number :	E0010		E0011		E0020		E0022		E0023	
Sampling Location :	G101		G102		G103		FIELD BLANK		G104	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/17/2006		4/14/2006		4/14/2006		4/12/2006		4/12/2006	
Time Sampled :										
%Moisture :	0		0		0		0		0	
pH :	6.0		6.0		6.0		6.0		6.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Phenol	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Bis(2-Chloroethyl)ether	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
2-Chlorophenol	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
2-Methylphenol	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
2,2'-Oxybis(1-chloropropane)	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Acetophenone	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
4-Methylphenol	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
N-Nitroso-di-n-propylamine	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Hexachloroethane	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Nitrobenzene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Isophorone	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
2-Nitrophenol	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
2,4-Dimethylphenol	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Bis(2-chloroethoxy)methane	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
2,4-Dichlorophenol	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Naphthalene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
4-Chloroaniline	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Hexachlorobutadiene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Caprolactam	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
4-Chloro-3-methylphenol	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
2-Methylnaphthalene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Hexachlorocyclopentadiene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
2,4,6-Trichlorophenol	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
2,4,5-Trichlorophenol	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
1,1'-Biphenyl	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
2-Chloronaphthalene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
2-Nitroaniline	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Dimethylphthalate	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
2,6-Dinitrotoluene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Acenaphthylene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
3-Nitroaniline	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Acenaphthene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ

Analytical ResUJlts (QUJalified Data)

Case #: 35229 SDG . E0010
Site : DUNAVAN OIL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0010		E0011		E0020		E0022		E0023	
Sampling Location :	*G101*		*G102*		*G103*		*FIELD BLANK*		*G104*	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		UJg/L		UJg/L		ug/L		UJg/L	
Date Sampled :	4/17/2006		4/14/2006		4/14/2006		4/12/2006		4/12/2006	
Time Sampled :										
%Moisture :	0		0		0		0		0	
pH :	6.0		6.0		6.0		6.0		6.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	ResUJlt	Flag	ResUJlt	Flag	Result	Flag	ResUJlt	Flag
2,4-Dinitrophenol	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
4-Nitrophenol	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Dibenzofuran	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
2,4-Dinitrotoluene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Diethylphthalate	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Fluorene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
4-Chlorophenyl-phenylether	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
4-Nitroaniline	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
4,6-Dinitro-2-methylphenol	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
N-Nitrosodiphenylamine	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
1,2,4,5-Tetrachlorobenzene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
4-Bromophenyl-phenylether	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Hexachlorobenzene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Atrazine	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Pentachlorophenol	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Phenanthrene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Anthracene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Carbazole	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Di-n-butylphthalate	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Fluoranthene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Pyrene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Butylbenzylphthalate	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
3,3'-Dichlorobenzidine	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Benzo(a)anthracene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Chrysene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Bis(2-ethylhexyl)phthalate	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Di-n-octylphthalate	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Benzo(b)fluoranthene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Benzo(k)fluoranthene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Benzo(a)pyrene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Indeno(1,2,3-cd)pyrene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Dibenzo(a,h)anthracene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Benzo(g,h,i)perylene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
2,3,4,6-Tetrachlorophenol	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ

Analytical Results (Qualified Data)

Case #: 35229 SDG : E0010
Site : DUNAVAN OIL
Lab. : ENVSYS
Reviewer :
Date

Sample Number :	E0025		E0035							
Sampling Location :	G105		G106							
Matrix :	Water		Water							
Units :	ug/L		ug/L							
Date Sampled :	4/5/2006		4/13/2006							
Time Sampled :										
%Moisture :	0		0							
pH :	6 0		6.0							
Dilution Factor :	1 0		1.0							
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5.0	R	5.0	U						
Phenol	5.0	R	5.0	U						
Bis(2-Chloroethyl)ether	5.0	R	5.0	U						
2-Chlorophenol	5.0	R	5.0	U						
2-Methylphenol	5.0	R	5.0	U						
2,2'-Oxybis(1-chloropropane)	5.0	R	5.0	U						
Acetophenone	5.0	R	5.0	U						
4-Methylphenol	5.0	R	5.0	U						
N-Nitroso-di-n-propylamine	5.0	R	5.0	U						
Hexachloroethane	5.0	R	5.0	U						
Nitrobenzene	5.0	R	5.0	U						
Isophorone	5.0	R	5.0	U						
2-Nitrophenol	5.0	R	5.0	U						
2,4-Dimethylphenol	5.0	R	5.0	U						
Bis(2-chloroethoxy)methane	5.0	R	5.0	U						
2,4-Dichlorophenol	5.0	R	5.0	U						
Naphthalene	5.0	R	5.0	U						
4-Chloroaniline	5.0	R	5.0	U						
Hexachlorobutadiene	5.0	R	5.0	U						
Caprolactam	5.0	R	5.0	U						
4-Chloro-3-methylphenol	5.0	R	5.0	U						
2-Methylnaphthalene	5.0	R	5.0	U						
Hexachlorocyclopentadiene	5.0	R	5.0	U						
2,4,6-Trichlorophenol	5.0	R	5.0	U						
2,4,5-Trichlorophenol	5.0	R	5.0	U						
1,1'-Biphenyl	5.0	R	5.0	U						
2-Chloronaphthalene	5.0	R	5.0	U						
2-Nitroaniline	10	R	10	U						
Dimethylphthalate	5.0	R	5.0	U						
2,6-Dinitrotoluene	5.0	R	5.0	U						
Acenaphthylene	5.0	R	5.0	U						
3-Nitroaniline	10	R	10	U						
Acenaphthene	5.0	R	5.0	U						

Analytical Results (Qualified Data)

Case #: 35229 SDG: E0010
Site: DUNAVAN OIL
Lab.: ENVSYS
Reviewer:
Date:

Sample Number:	E0025		E0035							
Sampling Location:	G105		G106							
Matrix:	Water		Water							
Units:	ug/L		ug/L							
Date Sampled:	4/5/2006		4/13/2006							
Time Sampled:										
%Moisture:	0		0							
pH:	6.0		6.0							
Dilution Factor:	1.0		1.0							
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	10	R	10	U						
4-Nitrophenol	10	R	10	U						
Dibenzofuran	5.0	R	5.0	U						
2,4-Dinitrotoluene	5.0	R	5.0	U						
Diethylphthalate	5.0	R	5.0	U						
Fluorene	5.0	R	5.0	U						
4-Chlorophenyl-phenylether	5.0	R	5.0	U						
4-Nitroaniline	10	R	10	U						
4,6-Dinitro-2-methylphenol	10	R	10	U						
N-Nitrosodiphenylamine	5.0	R	5.0	U						
1,2,4,5-Tetrachlorobenzene	5.0	R	5.0	U						
4-Bromophenyl-phenylether	5.0	R	5.0	U						
Hexachlorobenzene	5.0	R	5.0	U						
Atrazine	5.0	R	5.0	U						
Pentachlorophenol	10	R	10	U						
Phenanthrene	5.0	R	5.0	U						
Anthracene	5.0	R	5.0	U						
Carbazole	5.0	R	5.0	U						
Di-n-butylphthalate	5.0	R	5.0	U						
Fluoranthene	5.0	R	5.0	U						
Pyrene	5.0	R	5.0	U						
Butylbenzylphthalate	5.0	R	5.0	U						
3,3'-Dichlorobenzidine	5.0	R	5.0	U						
Benzo(a)anthracene	5.0	R	5.0	U						
Chrysene	5.0	R	5.0	U						
Bis(2-ethylhexyl)phthalate	5.0	R	5.0	U						
Di-n-octylphthalate	5.0	R	5.0	U						
Benzo(b)fluoranthene	5.0	R	5.0	U						
Benzo(k)fluoranthene	5.0	R	5.0	U						
Benzo(a)pyrene	5.0	R	5.0	U						
Indeno(1,2,3-cd)pyrene	5.0	R	5.0	U						
Dibenzo(a,h)anthracene	5.0	R	5.0	UJ						
Benzo(g,h,i)perylene	5.0	R	5.0	U						
2,3,4,6-Tetrachlorophenol	5.0	R	5.0	U						

Analytical Results (Qualified Data)

Case #. 35229 SDG E0010
Site : DUNAVAN OIL
Lab. : ENVSYS
Reviewer :
Date :

Number of Soil Samples 0
Number of Water Samples 7
Number of Sediment Samples 0

Sample Number :	E0010		E0011		E0020		E0022		E0023	
Sampling Location	G101		G102		G103		FIELD BLANK		G104	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/17/2006		4/14/2006		4/14/2006		4/12/2006		4/12/2006	
Time Sampled :										
%Moisture :	0		0		0		0		0	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile SIM Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Naphthalene	0.10	UJ	0.10	UJ	0.066	J	0.10	UJ	0.10	UJ
2-Methylnaphthalene	0.10	UJ	0.10	UJ	0.059	J	0.10	UJ	0.10	UJ
Acenaphthylene	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
Acenaphthene	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
Fluorene	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
Pentachlorophenol	0.20	R	0.20	R	0.20	R	0.20	R	0.20	R
Phenanthrene	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
Anthracene	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
Fluoranthene	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
Pyrene	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
Benzo(a)anthracene	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
Chrysene	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
Benzo(b)fluoranthene	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
Benzo(k)fluoranthene	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
Benzo(a)pyrene	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
Indeno(1,2,3-cd)pyrene	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
Dibenzo(a,h)anthracene	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
Benzo(g,h,i)perylene	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ

Analytical Results (Qualified Data)

Case #: 35229 SDG : E0010
Site : DUNAVAN OIL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0025		E0035							
Sampling Location :	G105		G106							
Matrix :	Water		Water							
Units :	ug/L		ug/L							
Date Sampled :	4/5/2006		4/13/2006							
Time Sampled :										
%Moisture :	0		0							
pH :										
Dilution Factor :	1.0		1.0							
Semivolatile SIM Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Naphthalene	0.10	R	0.10	UJ						
2-Methylnaphthalene	0.10	R	0.10	UJ						
Acenaphthylene	0.10	R	0.10	UJ						
Acenaphthene	0.10	R	0.10	UJ						
Fluorene	0.10	R	0.10	UJ						
Pentachlorophenol	0.20	R	0.20	R						
Phenanthrene	0.10	R	0.10	UJ						
Anthracene	0.10	R	0.10	UJ						
Fluoranthene	0.10	R	0.10	UJ						
Pyrene	0.10	R	0.10	UJ						
Benzo(a)anthracene	0.10	R	0.10	UJ						
Chrysene	0.10	R	0.10	UJ						
Benzo(b)fluoranthene	0.10	R	0.10	UJ						
Benzo(k)fluoranthene	0.10	R	0.10	UJ						
Benzo(a)pyrene	0.10	R	0.10	UJ						
Indeno(1,2,3-cd)pyrene	0.10	R	0.10	UJ						
Dibenzo(a,h)anthracene	0.10	R	0.10	UJ						
Benzo(g,h,i)perylene	0.10	R	0.10	UJ						

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 6/1/06

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: Dunavan Oil (IL)

CASE NUMBER: 35929 SDG NUMBER: E0010

Number and Type of Samples: 10 WATER samples

Sample Numbers: E0010-11; 13; 20; 22-26; 35

Laboratory: ENVIROSYSTEMS, INC. Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Contract Laboratory Program

Sample Delivery Group (SDG)
Cover Sheet

SDG Number E0010

Laboratory Name **ENVIROSYSTEMS, INC** Laboratory Code **ENVSYS**

Contract No. **EP-W-05-033** Case No. 35229

Analysis Price _____ SDG Turnaround 21 DAYS

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E0010	7) E0024	13)	19)
2) E0011	8) E0025	14)	20)
3) E0013	9) E0026	15)	21)
4) E0020	10) E0035	16)	22)
5) E0022	11)	17)	23)
6) E0023	12)	18)	24)

PL 4/18/06 PL 4/18/06

E0010	E0035
First Sample in SDG	Last Sample in SDG
4/13/06	4/14/06
First Sample Receipt Date	Last Sample Receipt Date

Note: There are a maximum of 20 field samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).

Signature Paul Lerch Date 4/18/06

PL

~~00000~~ 5/3/06

4A

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229 PV 4/15/06
DAS No:
SDG No: ~~E0016~~ E0010/E0001 **L**

Date Shipped:	4/12/2006
Carrier Name:	UPS
Airbill:	1Z6215892210024124
Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Terry Wheeler	4/12/06 1735	Barbara Crook	4/13/06 10:30
2			
3			
4			

Sampler Signature: Lance Range

For Lab Use Only

Lab Contract No: EPW05033
Unit Price:
Transfer To: BC 4/13/06
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0010	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	304188 (HCL), 304189 (HCL), 304190 (HCL), 304191 (HCL), 304192 (HCL), 304193, 304194 (12)	G101	S: 4/11/2006	16:45	ME0010	
E0011	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263353 (HCL), 263354 (HCL), 263355 (HCL), 263356 (HCL), 263357 (HCL), 263358, 263359 (12)	G102	S: 4/11/2006	17:25	ME0011	
E0013	Potable Well/ Lance Range	L/G	CLP TVOA (21), CLP TVSIM (21)	304198 (HCL), 304199 (HCL) (4)	Trip Blank 1	S: 4/5/2006	10:00		
E0014	Soil/Sediment/ Lance Range	L/G	VOA (21)	304200 (1)	X110	S: 4/5/2006	8:50	ME0014	
E0015	Soil/Sediment/ Lance Range	L/G	VOA (21)	263368 (1)	X111	S: 4/5/2006	9:50	ME0015	
E0016	Soil/Sediment/ Lance Range	L/G	VOA (21)	263372 (1)	X112	S: 4/12/2006	9:50	ME0016	
E0017	Soil/Sediment/ Lance Range	L/G	VOA (21)	263376 (1)	X113	S: 4/12/2006	10:40	ME0017	
E0018	Sediment/ Lance Range	L/G	VOA (21)	263379, 263380 (2)	S101	S: 4/12/2006	12:30	ME0018	

original in Case 35229 SDG E0001

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E0014, E0016, E0020		3°C	828/3- 828/5

Analysis Key: Concentration: L = Low, M = Low/Medium, H = High Type/Designate: Composite = C, Grab = G Custody Seal Intact? Y Shipment Iced? Y

CLP ARO = CLP TCL PCB (Aroclors), CLP PEST = CLP TCL Pesticide, CLP SVOA = CLP TCL Semivolatile, CLP SVSIM = CLP TCL Semivolatiles-SIM, CLP TVOA = CLP TCL Trace Volatiles, CLP TVSIM = CLP TCL Trace Volatiles-SIM, VOA = CLP TCL Volatiles

TR Number: 5-314975591-041206-0003

LABORATORY COPY

PR pr[illegible] preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Cen[illegible], Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4603

FZV5

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229
DAS No:
SDG No: E0001/E0014 L

Date Shipped:	4/12/2006
Carrier Name:	UPS
Airbill:	1Z6215892210024124
Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330

Chain of Custody Record

Sampler Signature: Lance Range

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Lance Range	4/12/06 1735	Barbara Crook	4/13/06 10:30
2			
3			
4			

For Lab Use Only

Lab Contract No: EPW053033
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0019	Sediment/ Lance Range	L/G	VOA (21)	263384, 263385 (2)	S102	S: 4/12/2006	12:20	ME0019	
E0020	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263275, 263276, 263277, 263278, 263279, 263280, 263386 (HCL), 263387 (HCL), 263388 (HCL), 263389 (HCL), 263390 (HCL), 263391 (HCL), 263392 (HCL), 263393 (HCL), 263394 (HCL), 263395 (HCL), 263396 (HCL), 263397 (HCL), 263398 (HCL), 263399 (HCL), 263400 (HCL) (36)	G103	S: 4/12/2006	12:40	ME0020	
E0027	Soil/Sediment/ Lance Range	L/G	VOA (21)	264000 (1)	X114	S: 4/12/2006	13:55	ME0027	
E0028	Soil/Sediment/ Lance Range	L/G	VOA (21)	263454 (1)	X115	S: 4/12/2006	16:55	ME0028	

original in Case 35229 SDG E0001

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: E0014, E0016, E0020	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3°C	Chain of Custody Seal Number: 828B13 - 828B15
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? ✓	Shipment Iced? ✓

CLP ARO = CLP TCL PCB (Aroclors), CLP PEST = CLP TCL Pesticide, CLP SVOA = CLP TCL Semivolatile, CLP SVSIM = CLP TCL Semivolatiles-SIM, CLP TVOA = CLP TCL Trace Volatiles, CLP TVSIM = CLP TCL Trace Volatiles-SIM, VOA = CLP TCL Volatiles

TR Number: 5-314975591-041206-0003

LABORATORY COPY

PR pr[illegible] preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Cen[illegible], Chantilly, VA 20151-3819; Phone 703/818-4200; Fax [illegible]

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229
DAS No:
SDG No: E0001/E0010

L

Date Shipped:	4/13/2006
Carrier Name:	UPS
Airbill:	1Z6215892210024179
Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	4/13/06 1200	Barbara Crook	4/14/06 10:00
2			
3			
4			

Sampler Signature: Lance Range

For Lab Use Only

Lab Contract No: EPW05003
Unit Price:
Transfer To: FL
Lab Contract No: 4/14/06
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0024	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263978 (HCL), 263979 (HCL), 263980 (HCL), 263981 (HCL), 263982 (HCL), 263983, 263984 (12)	G189	S: 4/12/2006 14:20	ME0024	5-263983 BROKEN VIAL
E0025	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263988 (HCL), 263989 (HCL), 263990 (HCL), 263991 (HCL), 263992 (HCL), 263993, 263994 (12)	G105	S: 4/5/2006 14:50	ME0025	5-263992 Broken VIAL
E0026	Potable Well/ Lance Range	L/G	CLP TVOA (21), CLP TVSIM (21)	263998 (HCL), 263999 (HCL) (4)	Trip Blank 2	S: 4/12/2006 16:00		
E0027	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	263300 (1)	X114	S: 4/12/2006 13:55	ME0027	original in Case 35229 SDG E0001
E0028	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	263455 (1)	X115	S: 4/12/2006 16:55	ME0028	
E0029	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263458, 263459, 263460 (3)	S106	S: 4/12/2006 17:20	ME0029	
E0030	Sediment/ Paul Mason	L/G	CLP SVOA (21), VOA (21)	263462, 263463, 263464 (3)	S107	S: 4/12/2006 17:40	ME0030	
E0031	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263466, 263467, 263468 (3)	S108	S: 4/12/2006 18:00	ME0031	

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E0016, E0024, E0038		3°C	82817-82820
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? ✓	Shipment Iced? ✓

CLP ARO = CLP TCL PCB (Aroclors), CLP PEST = CLP TCL Pesticide, CLP SVOA = CLP TCL Semivolatile, CLP SVSIM = CLP TCL Semivolatiles-SIM, CLP TVOA = CLP TCL Trace Volatiles, CLP TVSIM = CLP TCL Trace Volatiles-SIM, VOA = CLP TCL Volatiles

TR Number: 5-314975591-041306-0002

LABORATORY COPY

PR prov preliminary results. Requests for preliminary results will increase analytical costs.
Send C b: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Cent Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

F2V5.1

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229
DAS No:
SDG No: E0032/E0010

Date Shipped:	4/13/2006
Carrier Name:	UPS
Airbill:	1Z6215892210024179
Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd Suite B102 Columbia MD 21045 (410) 964-0330

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	4/13/06 1200	Barbara Crook	4/14/06 10:00
2			
3			
4			

Sampler Signature: [illegible]

For Lab Use Only

Lab Contract No: EPW05033
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0032	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263470, 263471 (2)	X116	S: 4/13/2006	8:30	ME0032	
E0033	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263474, 263475 (2)	X117	S: 4/6/2006	8:45	ME0033	
E0034	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263478, 263479 (2)	X118	S: 4/13/2006	9:00	ME0034	
E0035	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263481 (HCL), 263482 (HCL), 263483 (HCL), 263484 (HCL), 263485 (HCL), 263486, 263487 (12)	G106	S: 4/13/2006	10:00	ME0035	
E0036	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263490, 263491, 263493 (3)	S103	S: 4/13/2006	10:05	ME0036	
E0037	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263494, 263495, 263497 (3)	S104	S: 4/13/2006	11:00	ME0037	
E0038	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263498, 263499, 263601 (3)	S105	S: 4/13/2006	11:00	ME0038	
E0039	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263602, 263603, 263605 (3)	S109	S: 4/13/2006	10:20	ME0039	
E0040	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263606, 263607, 263609 (3)	S110	S: 4/13/2006	10:40	ME0040	

original in Case 35229 SDG E0001

Shipment for Case Complete?Y/	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E0016, E0024, E0038		3°C	82817-82820
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced?

CLP ARO = CLP TCL PCB (Aroclors), CLP PEST = CLP TCL Pesticide, CLP SVOA = CLP TCL Semivolatile, CLP SVSIM = CLP TCL Semivolatiles-SIM, CLP TVOA = CLP TCL Trace Volatiles, CLP TVSIM = CLP TCL Trace Volatiles-SIM, VOA = CLP TCL Volatiles

TR Number: 5-314975591-041306-0002

PR provide preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax

LABORATORY COPY

SDG NARRATIVE

LABORATORY NAME: ENVIROSYSTEMS, INC.

CASE #: 35229 SDG #: E0010 REGION: V

CONTRACT: EPW05033

DATE SAMPLES RECEIVED AT LABORATORY: 13-14 APRIL 2006

SAMPLE ANALYSES INCLUDED IN THIS REPORT:

EPA SAMPLE #	LAB ID#	ANALYSIS	MATRIX
E0010	0060419-08	TVOA, TVSIM, SV, SVSIM	WATER
E0011	0060419-07	TVOA, TVSIM, SV, SVSIM	WATER
E0013	0060419-09	TVOA, TVSIM	WATER
E0020	0060419-10	TVOA, TVSIM, SV, SVSIM	WATER
E0022	0060419-01	TVOA, TVSIM, SV, SVSIM	WATER
E0023	0060419-02	TVOA, TVSIM, SV, SVSIM	WATER
E0024	0060419-03	TVOA, TVSIM	WATER
E0025	0060419-04	TVOA, TVSIM, SV, SVSIM	WATER
E0026	0060419-06	TVOA, TVSIM	WATER
E0035	0060419-05	TVOA, TVSIM, SV, SVSIM	WATER

Matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on sample E0020 for semivolatiles. No MS/MSD are done for VOA.

Samples for this contract are analyzed by EPA SOW SOM01.1 for multi-media multi-concentration organics.

The cooler temperature was measured to be 3 degrees C.

TRACE VOLATILES SECTION:

The trace volatile analysis was performed on an Agilent 5975 MSD using a Restek RTX-624 20 meter column with an inner diameter of 0.18 mm and a 1 micron film thickness. The trap used with the autosampler is a 30 cm EST K Trap (VOCARB 3000) packed with Carbopack B/Carboxen 1000 & 1001.

1,4-Dioxane and 1,4-Dioxane-d8 had response factors below 0.005 in all initial and continuing calibration standards.

Sample E0026 was not analyzed for TVOA due to analyst's oversight.

All other QC requirements were met for all samples in this SDG. One sample had three DMC compounds out of the QC limit. No reanalyzing was performed because the problem was found during the report preparation past holding time.

SEMIVOLATILES SECTION:

The semi-volatile analysis was performed on a Hewlett Packard 5973 MSD using an RTX-5MS 30 meter column with an inner diameter of 0.25 mm and a 0.25 micron film thickness.

The ending CCV SSTD020I3 had one compound greater than required 50% at 51%D

All other QC requirements were met for all samples in this SDG.

All the DMC recoveries were within QC limits.

All of the eighteen MS/MSD recoveries and all of the nine MS/MSD RPD values were within the EPA advisory QC limits. Internal standards area for one of the calibration standard was low for perylened12.

Manual integrations were performed on the following samples and/or standards due to poor peak shape, coelution and/or low response: SSTDD080I9, and SSTD020IV.

SEMIVOLATILES SELECTIVE ION MONITORING (SIM) SECTION:

The semi-volatile SIM analysis was performed on a Hewlett Packard 5973 MSD using an RTX-5MS column with an inner diameter of 0.25 mm and a 0.25 micron film thickness.

All the DMC recoveries were compliant.

Matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on sample E0020 for SIM semivolatiles. The matrix spike for the full scan BNA analysis (40ug/L) was accidentally used instead of the BNA SIM matrix spike (0.40ug/L).

Two of the six MS/MSD recoveries and none of the three MS/MSD RPD values were outside of the EPA advisory QC limits.

All other QC requirements were met for all samples in this SDG.

Manual integration were performed on the following samples and/or standards due to poor peak shape, coelution and/or low response: SSTD0.1GV, SSTD0.2GV, SSTD0.4G4, SSTD0.4GW and E0020.

I CERTIFY THAT THIS SAMPLE DATA PACKAGE IS IN COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE CONTRACT, BOTH TECHNICALLY AND FOR COMPLETENESS, FOR OTHER THAN THE CONDITIONS DETAILED ABOVE. RELEASE OF THE DATA CONTAINED IN THIS HARDCOPY SAMPLE DATA PACKAGE AND IN THE ELECTRONIC DATA DELIVERABLE HAS BEEN AUTHORIZED BY THE LABORATORY MANAGER OR THE MANAGER'S DESIGNEE, AS VERIFIED BY THE FOLLOWING SIGNATURE:

Mohan Khare

Dr. Mohan Khare
President/CEO

DATE: 5/26/06
26 MAY 2006

SDG NARRATIVE

LABORATORY NAME: ENVIROSYSTEMS, INC.

CASE #: 35229 SDG #: E0011 REGION: 5

CONTRACT: EPW05033

DATE SAMPLES RECEIVED AT LABORATORY: 11 APRIL 2006

SAMPLE ANALYSES INCLUDED IN THIS REPORT:

EPA SAMPLE #	LAB ID#	ANALYSIS	MATRIX	VOA pH
E0010	0060419-08	SIM VOA	WATER	<2
E0011	0060419-07	SIM VOA	WATER	<2
E0013	0060419-09	SIM VOA	WATER	<2
E0020	0060419-10	SIM VOA	WATER	<2
E0022	0060419-01	SIM VOA	WATER	<2
E0023	0060419-02	SIM VOA	WATER	<2
E0024	0060419-03	SIM VOA	WATER	<2
E0025	0060419-04	SIM VOA	WATER	<2
E0026	0060419-06	SIM VOA	WATER	<2
E0035	0060419-05	SIM VOA	WATER	<2

Matrix spike/matrix spike duplicate (MS/MSD) analysis was not required for this SDG.

Samples for this SDG were analyzed by EPA SOW SOM01.1 for Selective-Ion Monitoring volatile organics organics.

The cooler temperature was measured to be 3 degrees C.

TRACE VOLATILES SECTION:

The trace volatile analysis was performed on an Agilent 5975 MSD using a Restek RTX-624 20 meter column with an inner diameter of 0.18 mm and a 1 micron film thickness. The trap used with the autosampler is a 30 cm EST K Trap (VOCARB 3000) packed with Carbopack B/Carboxen 1000 & 1001.

1,4-Dioxane and 1,4-Dioxane-d8 had response factors below 0.005 in all initial and continuing calibration standards.

All the samples had all the internal standard area within the QC limits.

All samples were analyzed using heated purge at 55 degrees C.

I CERTIFY THAT THIS SAMPLE DATA PACKAGE IS IN COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE CONTRACT, BOTH TECHNICALLY AND FOR COMPLETENESS, FOR OTHER THAN THE CONDITIONS DETAILED ABOVE. RELEASE OF THE DATA CONTAINED IN THIS HARDCOPY SAMPLE DATA PACKAGE AND IN THE ELECTRONIC DATA DELIVERABLE HAS BEEN AUTHORIZED BY THE LABORATORY MANAGER OR THE MANAGER'S DESIGNEE, AS VERIFIED BY THE FOLLOWING SIGNATURE:

Mohan Khare

Dr. Mohan Khare
President/CEO

DATE: 5/31/06
31 MAY 2006

Envirosystems, Inc.

From: Maruska, Gale [gmaruska@fedcsc.com]
Sent: Thursday, April 27, 2006 2:43 PM
To: Barbara Crook (E-mail)
Cc: Mark Wagner (E-mail); Carlene Thomas (E-mail); Howard Pham (E-mail); Warren Layne (E-mail)
Subject: Region 05 | Case 35229 | Lab ENVSYS | SDG E0010 | Issue Laboratory problems | FINAL

Paul,

Issue: The laboratory has accidentally lost the Aroclor extract for sample # E0022, there is not enough sample left for reextraction and analysis for Aroclors. However, the laboratory can split the Pesticides fraction extract for this sample and use a part of this extract for Sulfuric Acid cleanup and Aroclor analysis as usual.

Resolution: Per Region 5, it is acceptable for the Laboratory to split the Pesticides fraction extract for sample # E0022 and use a part of this extract for Sulfuric Acid cleanup and Aroclor analysis.

Please let me know if you have any questions.

Gale E. Maruska
Computer Sciences Corporation
Environmental Scientist
ST&R Coordinator Regions 5, 7 & 10
gmaruska@fedcsc.com
Phone(703)818-4125; Fax(703)818-4601; Alternate Fax(703)818-4602

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

-----Original Message-----
From: Pham.Howard@epamail.epa.gov [mailto:Pham.Howard@epamail.epa.gov]
Sent: Thursday, April 27, 2006 3:37 PM
To: Maruska, Gale
Subject: Re: FW: Region 05 | Case 35229 | Lab ENVSYS | SDG E0010 | Issue Labor atory problems (Howard - please advise)

Hi Gale,

Please ask the lab proceed the analyses as per Mark's resolution.

Thanks,

Howard Pham, Chemist/CLP PO
U.S. EPA, Region 5 (SMF-4J)
77 West Jackson Blvd.
Chicago, IL. 60604
(312) 353-2310
(312) 353-9281 (fax)
pham.howard@epa.gov

00511
5/24/06
~~00309~~

-----Original Message-----
From: Maruska, Gale
Sent: Thursday, April 27, 2006 2:56 PM

To: Carlene Thomas (E-mail); Howard Pham (E-mail); Warren Layne (E-mail)
Subject: FW: Region 05 | Case 35229 | Lab ENVSYS | SDG E0010 | Issue Laboratory problems (Howard - please advise)

Howard,

Is this acceptable to the Region?

Thanks,

Gale

-----Original Message-----

From: Mark Wagner [mailto:Mark.Wagner@epa.state.il.us]

Sent: Thursday, April 27, 2006 2:54 PM

To: Maruska, Gale

Subject: Re: FW: Region 05 | Case 35229 | Lab ENVSYS | SDG E0010 | Issue Labor atory problems

yes

-----Original Message-----
From: Maruska, Gale
Sent: Thursday, April 27, 2006 2:38 PM
To: Mark Wagner (E-mail)
Cc: Carlene Thomas (E-mail); Howard Pham (E-mail); Warren Layne (E-mail)
Subject: FW: Region 05 | Case 35229 | Lab ENVSYS | SDG E0010 | Issue Laboratory problems

Mark,

Is it acceptable for the laboratory to split the Pesticides fraction extract for sample # E0022 and use a part of this extract for Sulfuric Acid cleanup and Aroclor analysis?

Thanks,
Gale

-----Original Message-----
From: Maruska, Gale
Sent: Wednesday, April 26, 2006 2:56 PM
To: Mark Wagner (E-mail)
Cc: Carlene Thomas (E-mail); Howard Pham (E-mail); Warren Layne (E-mail)
Subject: FW: Region 05 | Case 35229 | Lab ENVSYS | SDG E0010 | Issue Laboratory problems

Mark,

According to Dr. Khare, the work will not be according to the Statement of Work, it is valid data, but it does not conform to the SOW. What we are hoping for you to do is ask the Region if they will accept this method, or they won't accept it.

Please advise.

Thanks,
Gale

00511

-----Original Message-----
From: Envirosystems [mailto:envirosystems@gmail.com]On Behalf Of Envirosystems, Inc.
Sent: Wednesday, April 26, 2006 1:56 PM
To: 'Maruska, Gale'
Subject: RE: Region 05 | Case 35229 | Lab ENVSYS | SDG E0010 | Issue Laboratory problems

5/22/06

00310

Gale,

According to Dr. Khare, the work will not be according to the Statement of Work, it is valid data, but it does not conform to the SOW. What we are hoping for you to do is ask the Region if they will accept this method, or they won't accept it. Let me know if you have any more questions. Thank you
Paul--

From: Maruska, Gale [mailto:gmaruska@fedcsc.com]
Sent: Wednesday, April 26, 2006 9:53 AM
To: Barbara Crook (E-mail)
Subject: FW: Region 05 | Case 35229 | Lab ENVSYS | SDG E0010 | Issue Laboratory problems

Paul,

Will the data be qualified?

Thanks,

Gale

-----Original Message-----

From: Mark Wagner [mailto:Mark.Wagner@epa.state.il.us]

Sent: Wednesday, April 26, 2006 10:42 AM

To: Maruska, Gale

Cc: Wasilewski, Tony

Subject: Re: Region 05 | Case 35229 | Lab ENVSYS | SDG E0010 | Issue

Laboratory problems

Please do what is needed. Will this data be qualified?

thanks,

Mark

-----Original Message-----
From: Maruska, Gale
Sent: Wednesday, April 26, 2006 10:29 AM
To: Mark Wagner (E-mail)
Cc: Carlene Thomas (E-mail); Howard Pham (E-mail); Warren Layne (E-mail)
Subject: Region 05 | Case 35229 | Lab ENVSYS | SDG E0010 | Issue Laboratory problems

Mark,

ENVSYS has sent the following issue for Case 35229:

The laboratory has accidentally lost the Aroclor extract for sample # E0022, there is not enough sample left for reextraction and analysis for Aroclors.
However , the laboratory can split the Pesticides fraction extract for this sample and use a part of this extract for Sulfuric Acid cleanup and Aroclor analysis as usual.

Please advise.

00513

Gale E. Maruska
Computer Sciences Corporation
Environmental Scientist
ST&R Coordinator Regions 5, 7 & 10
gmaruska@fedcsc.com

5/26/06

0031 4:12 PM

Phone(703)818-4125; Fax(703)818-4601; Alternate Fax(703)818-4602

-----Original Message-----
From: Envirosystems [mailto:envirosystems@gmail.com]On Behalf Of Envirosystems, Inc.
Sent: Wednesday, April 26, 2006 10:08 AM
To: 'Maruska, Gale'
Subject: Case 352229 SDG E0010

Gale,

Issue: Case 35229 SDG E0010,

The laboratory has accidentally lost the Aroclor extract for sample # E0022, there is not enough sample left for reextraction and analysis for Aroclors.
However , the laboratory can split the Pesticides fraction extract for this sample and use a part of this extract for Sulfuric Acid cleanup and Aroclor analysis as usual. Please let me know how to proceed. Thank you Paul-Let me know if you need any more information.

00514

5/26/06

00312

2A - FORM II VOA-1
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0010

Level: (TRACE or LOW) TRACE

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	E0010	118	116	86	95	113	129	114
02	E0011	96	95	71	72	103	108	96
03	E0013	90	113	68	81	101	111	95
04	E0020	102	102	74	88	106	113	99
05	E0022	100	96	72	67	95	101	99
06	E0023	96	111	71	87	100	112	97
07	E0024	101	93	74	84	102	110	98
08	E0025	104	100	77	88	113	119	105
09	E0035	96	93	72	66	100	101	97
10	VBLKHT	82	92	61	65	78	88	81
11	VHBLKHT	102	101	74	86	102	114	97
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

		QC LIMITS
VDMC1	(VCL) = Vinyl chloride-d3	(65-131)
VDMC2	(CLA) = Chloroethane-d5	(71-131)
VDMC3	(DCE) = 1,1-Dichloroethene-d2	(55-104)
VDMC4	(BUT) = 2-Butanone-d5	(49-155)
VDMC5	(CLF) = Chloroform-d	(78-121)
VDMC6	(DCA) = 1,2-Dichloroethane-d4	(78-129)
VDMC7	(BEN) = Benzene-d6	(77-124)

Column to be used to flag recovery values
* Value outside of contract required QC limits

00298

SOM01.1 (5/2005)

2B - FORM II VOA-2
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0010

Level: (TRACE or LOW) TRACE

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	E0010	115	111	137 *	121	148	133 *	139 *	3
02	E0011	96	94	112	87	125	98	106	0
03	E0013	96	92	118	107	136	113	102	0
04	E0020	99	97	120	113	135	118	109	0
05	E0022	96	96	112	88	124	94	104	0
06	E0023	96	96	121	117	147	116	107	0
07	E0024	96	97	120	109	141	111	109	0
08	E0025	103	102	124 *	108	154 *	115	114	2
09	E0035	95	93	109	83	115	94	100	0
10	VBLKHT	79	79	96	85	98	87	86	0
11	VHBLKHT	100	96	118	109	126	111	112	0
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

		QC LIMITS
VDMC8 (DPA)	= 1,2-Dichloropropane-d6	(79-124)
VDMC9 (TOL)	= Toluene-d8	(77-121)
VDMC10 (TDP)	= trans-1,3-Dichloropropene-d4	(73-121)
VDMC11 (HEX)	= 2-Hexanone-d5	(28-135)
VDMC12 (DXE)	= 1,4-Dioxane-d8	(50-150)
VDMC13 (TCA)	= 1,1,2,2-Tetrachloroethane-d2	(73-125)
VDMC14 (DCZ)	= 1,2-Dichlorobenzene-d4	(80-131)

Column to be used to flag recovery values
* Values outside of contract required QC limits

00299

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKHT

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0010

Lab File ID: C000090 3.D Lab Sample ID: 0D62501-BLK1

Instrument ID: HP75H

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 04/25/2006

Level: (TRACE or LOW/MED) TRACE Time Analyzed: 1459

GC Column: RTX-624 ID: .18 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E0022	0060419-01	0000090 4.D	1532
02	E0023	0060419-02	0000090 5.D	1604
03	E0024	0060419-03	0000090 6.D	1637
04	E0025	0060419-04	0000090 7.D	1709
05	E0035	0060419-05	0000090 8.D	1742
06	E0011	0060419-07	0000090 9.D	1815
07	E0010	0060419-08	0000090 10.D	1847
08	E0013	0060419-09	0000090 11.D	1920
09	E0020	0060419-10	0000090 12.D	1953
10	VHBLKHT	0060419-11	0000090 13.D	2026
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

00300

SOM01.1 (5/2005)

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKHT

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D62501-BLK1

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: 0000090_3.D

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 04/25/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.00 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
123-91-1	1,4-Dioxane	20	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKHT

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D62501-BLK1

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: 0000090_3.D

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 04/25/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.00 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLKHT

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D62501-BLK1

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: 0000090_3.D

Level: (TRACE or LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 04/25/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/L Purge Volume: 25.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.50	0.86	J
02		UNKNOWN	7.21	3.9	J
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKHT

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0060419-11

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: 0000090_13.D

Level: (TRACE/LOW/MED) TRACE Date Received: 04/14/2006

% Moisture: not dec. Date Analyzed: 04/25/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.00 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.53	~~U~~
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
123-91-1	1,4-Dioxane	20	U

RB 6/2/10

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKHT

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0060419-11

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: 0000090_13.D

Level: (TRACE/LOW/MED) TRACE Date Received: 04/14/2006

% Moisture: not dec. Date Analyzed: 04/25/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.00 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.23 ~~0.50~~	J ~~U~~
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

RB 6/21/06

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VHBLKHT

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0060419-11

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: 0000090_13.D

Level: (TRACE or LOW/MED) TRACE Date Received: 04/14/2006

% Moisture: not dec. Date Analyzed: 04/25/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/L Purge Volume: 25.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.50	1.1	JB
02	115-11-7	1-Propene, 2-methyl-	2.03	0.53	JN
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

RB 6/19/06

2E - FORM II VOA-SIM1
TRACE SIM (WATER) VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0010

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	E0010						107	
02	E0011						116	
03	E0013						111	
04	E0020						90	
05	E0022						100	
06	E0023						110	
07	E0024						98	
08	E0025						89	
09	E0026						122	
10	E0035						96	
11	VBLKHV						112	
12	VHBLKHV						89	
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

		QC LIMITS
VDMC1	(VCL) = Vinyl chloride-d3	(65-131)
VDMC2	(CLA) = Chloroethane-d5	(71-131)
VDMC3	(DCE) = 1,1-Dichloroethene-d2	(55-104)
VDMC4	(BUT) = 2-Butanone-d5	(49-155)
VDMC5	(CLF) = Chloroform-d	(78-121)
VDMC6	(DCA) = 1,2-Dichloroethane-d4	(78-129)
VDMC7	(BEN) = Benzene-d6	(77-124)

Column to be used to flag recovery values
* Value outside of contract required QC limits

00007

2F - FORM II VOA-SIM2
TRACE SIM (WATER) VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0010

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	E0010					123	87		0
02	E0011					110	89		0
03	E0013					117	92		0
04	E0020					96	70 *		1
05	E0022					164 *	93		1
06	E0023					146	95		0
07	E0024					9 *	86		1
08	E0025					122	70 *		1
09	E0026					143	96		0
10	E0035					126	74		0
11	VBLKHV					157 *	97		1
12	VHBLKHV					131	72 *		1
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

	QC LIMITS
VDMC8 (DPA) = 1,2-Dichloropropane-d6	(79-124)
VDMC9 (TOL) = Toluene-d8	(77-121)
VDMC10 (TDP) = trans-1,3-Dichloropropene-d4	(73-121)
VDMC11 (HEX) = 2-Hexanone-d5	(28-135)
VDMC12 (DXE) = 1,4-Dioxane-d8	(50-150)
VDMC13 (TCA) = 1,1,2,2-Tetrachloroethane-d2	(73-125)
VDMC14 (DCZ) = 1,2-Dichlorobenzene-d4	(80-131)

Column to be used to flag recovery values
* Values outside of contract required QC limits

00008

4B - FORM IV VOA-SIM
TRACE VOLATILE (WATER) SIM METHOD
BLANK SUMMARY

EPA SAMPLE NO.
VBLKHV

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: ____ SDG No.: E0010

Lab File ID: 0000093 3.D Lab Sample ID: 0D62701-BLK1

Instrument ID: HP75H Date Analyzed: 04/27/2006

GC Column: RTX-624 ID: .18 (mm) Time Analyzed: 1213

Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E0022	0060419-01	0000093 4.D	1343
02	E0023	0060419-02	0000093 5.D	1416
03	E0024	0060419-03	0000093 6.D	1448
04	E0025	0060419-04	0000093 7.D	1521
05	E0035	0060419-05	0000093 8.D	1553
06	E0026	0060419-06	0000093 9.D	1626
07	E0011	0060419-07	0000093 10.D	1658
08	E0010	0060419-08	0000093 11.D	1731
09	E0013	0060419-09	0000093 12.D	1804
10	E0020	0060419-10	0000093 13.D	1836
11	VHBLKHV	0060419-11	0000093 14.D	1909
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

00009

SOM01.1 (5/2005)

1C - FORM I VOA-SIM
TRACE VOLATILE ORGANICS SIM ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKHV

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

Lab Sample ID: 0D62701-BLK1 Lab File ID: 0000093_3.D

Sample Vol:(mL) 25.00 Date Received:

GC Column: RTX-624 ID: .18 (mm) Date Analyzed: 04/27/2006

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
123-91-1	1,4-Dioxane	25	
106-93-4	1,2-Dibromoethane	0.050	U
96-12-8	1,2-Dibromo-3-chloropropane	0.050	U

1C - FORM I VOA-SIM
TRACE VOLATILE ORGANICS SIM ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKHV

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

Lab Sample ID: 0060419-11 Lab File ID: 0000093_14.D

Sample Vol:(mL) 25.00 Date Received: 04/14/2006

GC Column: RTX-624 ID: .18 (mm) Date Analyzed: 04/27/2006

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
123-91-1	1,4-Dioxane	20	B u
106-93-4	1,2-Dibromoethane	0.10	~~u~~
96-12-8	1,2-Dibromo-3-chloropropane	0.079	~~u~~

RB 6/19/06

00095

2G - FORM II SV-1
WATER SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0010

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	E0010	73	74	77	68	75	79	72	70
02	E0011	68	71	74	64	72	74	69	48
03	E0020	72	71	75	66	72	75	69	57
04	E0020MS	68	65	70	61	65	68	63	60
05	E0020MSD	73	71	76	67	71	76	70	73
06	E0022	72	71	74	65	70	72	67	46
07	E0023	72	70	74	65	69	73	67	59
08	E0025	68	67	71	61	68	67	65	46
09	E0035	72	70	74	65	70	71	68	59
10	SBLK13	72	77	79	66	77	74	71	44
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

			QC LIMITS
SDMC1	(PHL)	= Phenol-d5	(39-106)
SDMC2	(BCE)	= Bis(2-chloroethyl)ether-d8	(40-105)
SDMC3	(2CP)	= 2-Chlorophenol-d4	(41-106)
SDMC4	(4MP)	= 4-Methylphenol-d8	(25-111)
SDMC5	(NBZ)	= Nitrobenzene-d5	(43-108)
SDMC6	(2NP)	= 2-Nitrophenol-d4	(40-108)
SDMC7	(DCP)	= 2,4-Dichlorophenol-d3	(37-105)
SDMC8	(4CA)	= 4-Chloroaniline-d4	(1-145)

Column to be used to flag recovery values
* Value outside of contract required QC limits
D DMC diluted out

00013

2H - FORM II SV-2
WATER SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case 35229 Mod. Ref No.: ____ SDG No.: E0010

	EPA SAMPLE NO.	SDMC9 (DMP) #	SDMC10 (ACY) #	SDMC11 (4NP) #	SDMC12 (FLR) #	SDMC13 (NMP) #	SDMC14 (ANC) #	SDMC15 (PYR) #	SDMC16 (BAP) #	TOT OUT
01	E0010	78	76	61	77	60	71	80	72	0
02	E0011	74	73	53	73	57	65	77	65	0
03	E0020	74	73	55	72	53	65	72	66	0
04	E0020MS	68	67	58	67	52	55	64	59	0
05	E0020MSD	76	74	66	73	61	61	78	65	0
06	E0022	74	73	52	72	49	68	75	67	0
07	E0023	73	72	54	71	52	67	79	67	0
08	E0025	70	69	48	68	46	64	74	62	0
09	E0035	75	73	53	72	55	66	75	67	0
10	SBLK13	80	79	45	78	42	73	86	69	0
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS
SDMC9	(DMP) = Dimethylphthalate-d6	(47-114)
SDMC10	(ACY) = Acenaphthylene-d8	(41-107)
SDMC11	(4NP) = 4-Nitrophenol-d4	(33-116)
SDMC12	(FLR) = Fluorene-d10	(42-111)
SDMC13	(NMP) = 4,6-Dinitro-2-methylphenol-d2	(22-104)
SDMC14	(ANC) = Anthracene-d10	(44-110)
SDMC15	(PYR) = Pyrene-d10	(52-119)
SDMC16	(BAP) = Benzo(a)pyrene-d12	(32-121)

Column to be used to flag recovery values
* Value outside of contract required QC limits
D DMC diluted out

00014

3C - FORM III SV-1
WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0010

Matrix Spike - EPA Sample No.: E0020

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC #	QC LIMITS REC.
Phenol	40	ND	28	70	12-110
2-Chlorophenol	40	ND	27	68	27-123
N-Nitroso-di-n-propylamine	40	ND	25	63	41-116
4-Chloro-3-methylphenol	40	ND	26	65	23-97
Acenaphthene	40	ND	27	68	46-118
4-Nitrophenol	40	ND	24	60	10-80
2,4-Dinitrotoluene	40	ND	25	63	24-96
Pentachlorophenol	40	ND	24	60	9-103
Pyrene	40	ND	32	80	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
Phenol	40	30	75	7	0-42	12-110
2-Chlorophenol	40	29	73	7	0-40	27-123
N-Nitroso-di-n-propylamine	40	28	70	11	0-38	41-116
4-Chloro-3-methylphenol	40	29	73	12	0-42	23-97
Acenaphthene	40	30	75	10	0-31	46-118
4-Nitrophenol	40	27	68	13	0-50	10-80
2,4-Dinitrotoluene	40	28	70	11	0-38	24-96
Pentachlorophenol	40	28	70	15	0-50	9-103
Pyrene	40	39	98	20	0-31	26-127

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 9 outside limits
Spike Recovery: 0 out of 18 outside limits

COMMENTS: _____

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
SBLK13

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: ____ SDG No.: E0010

Lab File ID: AG73IA722.D Lab Sample ID: 0D62002-BLK1

Instrument ID: HP73I Date Extracted: 04/20/2006

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 04/26/2006

Level: (LOW/MED) LOW Time Analyzed: 1109

Extraction: (Type) CONT GPC Cleanup: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E0022	0060419-01	AG73IA727.D	04/26/2006
02	E0023	0060419-02	AG73IA728.D	04/26/2006
03	E0025	0060419-04	AG73IA729.D	04/26/2006
04	E0035	0060419-05	AG73IA730.D	04/26/2006
05	E0011	0060419-07	AG73IA725.D	04/26/2006
06	E0010	0060419-08	AG73IA724.D	04/26/2006
07	E0020	0060419-10	AG73IA726.D	04/26/2006
08	E0020MS	0D62002-MS1	AG73IA731.D	04/26/2006
09	E0020MSD	0D62002-MSD1	AG73IA732.D	04/26/2006
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

00016

SOM01.1 (5/2005)

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0020MS

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D62002-MS1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AG73IA731.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 04/14/2006

Concentrated Extract Volume: 1000 (uL) Date Extracted: 04/20/2006

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 04/26/2006

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	28	
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	27	
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	25	
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	26	
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	27	

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0020MS

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D62002-MS1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AG73IA731.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 04/14/2006

Concentrated Extract Volume: 1000 (uL) Date Extracted: 04/20/2006

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 04/26/2006

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	24	
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	25	
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	24	
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	32	
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo (a) anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo (b) fluoranthene	5.0	U
207-08-9	Benzo (k) fluoranthene	5.0	U
50-32-8	Benzo (a) pyrene	5.0	U
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U
53-70-3	Dibenzo (a,h) anthracene	5.0	U
191-24-2	Benzo (g,h,i) perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1]Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0020MSD

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D62002-MSD1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AG73IA732.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 04/14/2006

Concentrated Extract Volume: 1000 (uL) Date Extracted: 04/20/2006

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 04/26/2006

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	30	
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	29	
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	28	
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	29	
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	30	

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0020MSD

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D62002-MSD1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AG73IA732.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 04/14/2006

Concentrated Extract Volume: 1000 (uL) Date Extracted: 04/20/2006

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 04/26/2006

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	27	
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	28	
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	28	
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	39	
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo (a) anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo (b) fluoranthene	5.0	U
207-08-9	Benzo (k) fluoranthene	5.0	U
50-32-8	Benzo (a) pyrene	5.0	U
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U
53-70-3	Dibenzo (a,h) anthracene	5.0	U
191-24-2	Benzo (g,h,i) perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1] Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK13

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D62002-BLK1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AG73IA722.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 04/20/2006

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 04/26/2006

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	1.1	J
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.0	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK13

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D62002-BLK1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AG73IA722.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 04/20/2006

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 04/26/2006

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo (a) anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo (b) fluoranthene	5.0	U
207-08-9	Benzo (k) fluoranthene	5.0	U
50-32-8	Benzo (a) pyrene	5.0	U
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U
53-70-3	Dibenzo (a,h) anthracene	5.0	U
191-24-2	Benzo (g,h,i) perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLK13

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: ____ SDG No.: E0010

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D62002-BLK1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AG73IA722.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: ____ Decanted: (Y/N) ____ Date Received: ____

Concentrated Extract Volume: 1000 (uL) Date Extracted: 04/20/2006

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 04/26/2006

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

2L - FORM II SV-SIM1
WATER SEMIVOLATILE SIM DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ENVIROSYSTEMS, INC. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

	EPA SAMPLE NO.	SDMC17 (FLN) #	SDMC18 (2MN) #							TOT OUT
01	SBLK17	88	93							0
02	SBLK18	100	80							0
03	E0022	95	98							0
04	E0023	93	83							0
05	E0025	90	83							0
06	E0035	90	85							0
07	E0010	83	78							0
08	E0011	90	83							0
09	E0020	93	75							0
10	E0020MS	103	90							0
11	E0020MSD	90	73							0
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS
SDMC17 (FLN)	= Fluoranthene-d10	(50-150)
SDMC18 (2MN)	= 2-Methylnapthalene-d10	(50-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3E - FORM III SV-SIM1
WATER SEMIVOLATILE SIM MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENVIROSYSTEMS, INC. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

Matrix Spike - EPA Sample No.: E0020

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC. LIMITS REC.
Acenaphthene	40	0.00	27	68	46-118
Pentachlorophenol	40	0.00	96	240 *	9-103
Pyrene	40	0.00	28	70	26-127

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	40	26	65	5	0-31	46-118
Pentachlorophenol	40	84	210 *	13	0-50	9-103
Pyrene	40	28	70	0	0-31	26-127

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 3 outside limits
Spike Recovery: 2 out of 6 outside limits

COMMENTS: The matrix spike for the full scan BNA analysis (40 ug/ml) was accidently used instead of the BNA SIM matrix spike (0.40 ug/ml).

4D - FORM IV SV-SIM
SEMIVOLATILE SIM METHOD BLANK SUMMARY

EPA SAMPLE NO.
SBLK17

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

Lab File ID: H73GX746.D Lab Sample ID: 0D62402-BLK1

Instrument ID: HP73G Date Extracted: 04/24/2006

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 04/27/2006

Level: (LOW/MED) LOW Time Analyzed: 1449

Extraction: (Type) CONT GPC Cleanup: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E0022	0060419-01	H73GX748.D	04/27/2006
02	E0023	0060419-02	H73GX749.D	04/27/2006
03	E0025	0060419-04	H73GX762.D	04/28/2006
04	E0035	0060419-05	H73GX763.D	04/28/2006
05	E0011	0060419-07	H73GX765.D	04/28/2006
06	E0010	0060419-08	H73GX764.D	04/28/2006
07	E0020	0060419-10	H73GX766.D	04/28/2006
08	E0020MS	0D62402-MS1	H73GX767.D	04/28/2006
09	E0020MSD	0D62402-MSD1	H73GX768.D	04/28/2006
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0020MS

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D62402-MS1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GX767.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 04/14/2006

Concentrated Extract Volume: 1000 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 04/28/2006

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
91-20-3	Naphthalene	0.10	U
91-57-6	2-Methylnaphthalene	0.10	U
208-96-8	Acenaphthylene	0.10	U
83-32-9	Acenaphthene	27	E
86-73-7	Fluorene	0.10	U
87-86-5	Pentachlorophenol	96	E
85-01-8	Phenanthrene	0.10	U
120-12-7	Anthracene	0.10	U
206-44-0	Fluoranthene	0.10	U
129-00-0	Pyrene	28	E
56-55-3	Benzo (a) anthracene	0.10	U
218-01-9	Chrysene	0.10	U
205-99-2	Benzo (b) fluoranthene	0.10	U
207-08-9	Benzo (k) fluoranthene	0.10	U
50-32-8	Benzo (a) pyrene	0.10	U
193-39-5	Indeno (1,2,3-cd) pyrene	0.10	U
53-70-3	Dibenzo (a,h) anthracene	0.10	U
191-24-2	Benzo (g,h,i) perylene	0.10	U

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0020MSD

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D62402-MSD1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GX768.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 04/14/2006

Concentrated Extract Volume: 1000 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 04/28/2006

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
91-20-3	Naphthalene	0.10	U
91-57-6	2-Methylnaphthalene	0.10	U
208-96-8	Acenaphthylene	0.10	U
83-32-9	Acenaphthene	26	E
86-73-7	Fluorene	0.10	U
87-86-5	Pentachlorophenol	84	E
85-01-8	Phenanthrene	0.10	U
120-12-7	Anthracene	0.10	U
206-44-0	Fluoranthene	0.10	U
129-00-0	Pyrene	28	E
56-55-3	Benzo (a) anthracene	0.10	U
218-01-9	Chrysene	0.10	U
205-99-2	Benzo (b) fluoranthene	0.10	U
207-08-9	Benzo (k) fluoranthene	0.10	U
50-32-8	Benzo (a) pyrene	0.10	U
193-39-5	Indeno (1,2,3-cd) pyrene	0.10	U
53-70-3	Dibenzo (a,h) anthracene	0.10	U
191-24-2	Benzo (g,h,i) perylene	0.10	U

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK17

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D62402-BLK1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GX746.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 04/27/2006

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
91-20-3	Naphthalene	0.10	U
91-57-6	2-Methylnaphthalene	0.10	U
208-96-8	Acenaphthylene	0.10	U
83-32-9	Acenaphthene	0.10	U
86-73-7	Fluorene	0.10	U
87-86-5	Pentachlorophenol	0.20	U
85-01-8	Phenanthrene	0.10	U
120-12-7	Anthracene	0.10	U
206-44-0	Fluoranthene	0.10	U
129-00-0	Pyrene	0.10	U
56-55-3	Benzo (a) anthracene	0.10	U
218-01-9	Chrysene	0.10	U
205-99-2	Benzo (b) fluoranthene	0.10	U
207-08-9	Benzo (k) fluoranthene	0.10	U
50-32-8	Benzo (a) pyrene	0.10	U
193-39-5	Indeno (1,2,3-cd) pyrene	0.10	U
53-70-3	Dibenzo (a,h) anthracene	0.10	U
191-24-2	Benzo (g,h,i) perylene	0.10	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0010

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0060419-08

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: 0000090_10.D

Level: (TRACE or LOW/MED) TRACE Date Received: 04/14/2006

% Moisture: not dec. Date Analyzed: 04/25/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/L Purge Volume: 25.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.52	41	J
02		UNKNOWN	7.21	5.6	JB
03	541-05-9	Cyclotrisiloxane, hexamethyl-	7.81	0.67	JN
04	556-67-2	Cyclotetrasiloxane, octamethyl-	9.99	4.4	JN
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

6/19/06

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0011

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0060419-07

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: 0000090_9.D

Level: (TRACE or LOW/MED) TRACE Date Received: 04/14/2006

% Moisture: not dec. Date Analyzed: 04/25/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/L Purge Volume: 25.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.52	38	J
02		UNKNOWN	7.21	4.7	JB u
03	556-67-2	Cyclotetrasiloxane, octamethyl-	9.98	0.94	JN
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

RB 6/19/06

00321

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0020

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0060419-10

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: 0000090_12.D

Level: (TRACE or LOW/MED) TRACE Date Received: 04/14/2006

% Moisture: not dec. Date Analyzed: 04/25/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/L Purge Volume: 25.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.52	37	J
02		UNKNOWN	3.80	1.2	J
03	556-67-2	Cyclotetrasiloxane, octamethyl-	9.99	1.2	JN
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0023

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0060419-02

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: 0000090_5.D

Level: (TRACE or LOW/MED) TRACE Date Received: 04/17/2006

% Moisture: not dec. Date Analyzed: 04/25/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/L Purge Volume: 25.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.52	28	J
02		UNKNOWN	5.83	1.9	J
03		UNKNOWN	7.21	4.9	JB
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

RB 4/14/0

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0025

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0060419-04

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: 0000090_7.D

Level: (TRACE or LOW/MED) TRACE Date Received: 04/17/2006

% Moisture: not dec. Date Analyzed: 04/25/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/L Purge Volume: 25.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.52	15	J
02		UNKNOWN	7.21	5.1	JB
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

RB 6/29/

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0035

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0010

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0060419-05

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: 0000090_8.D

Level: (TRACE or LOW/MED) TRACE Date Received: 04/17/2006

% Moisture: not dec. Date Analyzed: 04/25/2006

GC Column: RTX-624 ID: .18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) UG/L Purge Volume: 25.00 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	1.52	21	J
02		UNKNOWN	3.80	1.2	J
03		UNKNOWN	7.21	4.6	JB
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

RB 4/19/06

00407

National Functional Guidelines Report # 9

12:35 Tue, Jun 6, 2006

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0010 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31464

VOA_Trace Sample=E0010 Location=G101 Matrix=Water Level=Trace

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
000541-05-9	Cyclotrisiloxane, hexamethyl-	7.81	0.67	ug/L	JN
000556-67-2	Cyclotetrasiloxane, octamethyl-	9.99	4.4		JN

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0010 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31464

VOA_Trace Sample=E0011 Location=G102 Matrix=Water Level=Trace

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
000556-67-2	Cyclotetrasiloxane, octamethyl-	9.98	0.94	ug/L	JN

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0010 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31464

VOA_Trace Sample=E0020 Location=G103 Matrix=Water Level=Trace

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
000556-67-2	Cyclotetrasiloxane, octamethyl-	9.99	1.2	ug/L	JN

National Functional Guidelines Report # 9

12:35 Tue, Jun 6, 2006

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0010 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31464

VOA Trace Sample=E0023 Location=G104 Matrix=Water Level=Trace

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
Unknown-01	Unknown-01	5.83	1.9	ug/L	J

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0010 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31464

VOA Trace Sample=E0025 Location=G105 Matrix=Water Level=Trace

CAS No.	Compound Name	RT (mins)	Concentration	Lab Qualifier

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0010 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31464

VOA_Trace Sample=E0035 Location=G106 Matrix=Water Level=Trace

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
Unknown-02	Unknown-02	3.8	1.2	ug/L	J

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0010 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31464

BNA Sample=E0023 Location=G104 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
104-76-7	1-Hexanol, 2-ethyl-	8.35	4.6	ug/L	JN
10544-50-0	Cyclic octaatomic sulfur	21.15	16		JN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E0010 CERCLIS No: ILD980794929

Case No: 35229 Site Name/Location: Dunavan Oil (IL)

Contractor or EPA Lab: ENVIROSYSTEMS Data User: IEPA

No. of Samples: 10 Date Sampled or Date Received: 6/1/06

Have Chain-of-Custody records been received? Yes X No ____
Have traffic reports or packing lists been received? Yes X No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes X No ____
No of samples claimed: ____ No. of samples received: ____

Received by: Laurajohnson Date: 6/1/06

Received by LSSS: Laurajohnson Date: 6/1/06

Review started: 16 JUNE 2006 Reviewer Signature: Richard O Dalton

Total time spent on review: 26 Date review completed: 22 JUNE 2006

Copied by: A. C. Harvey Date: July 5, 2006

Mailed to user by: Laurajohnson Date: 6 July 06

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: ____

DATE: July 6, 2006

IEPA
Attn: Mr. Bob Casper
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

SITE NAME: Dunavan Oil (IL)

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
35229	Envirosystems	8	E0032	soil

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

JUL 14 2006

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: **U.S. EPA - Region 5**
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat Johnson
Data Coordinator
ESAT Region 5 **TechLaw**

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: May 26, 2006

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

for Steve Ostrodka
Richard L Byrnes
7/5/06

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE Name: Dunavan Oil (IL)

Case Number: 35229

SDG Number: E0032

Number and Type of Samples: 8 (soil) (SV)

Sample Numbers: E0032 through E0034 and E0036 through E0040

Laboratory: Envirosystems Inc.

Hrs for Review:

Following are our findings:

The data are usable and acceptable with the qualifications described in the attached narrative.

Richard L Byrnes

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0032
Laboratory: Envirosystems

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Eight (8) soil samples, numbered E0032 through E0034 and E0036 through E0040 were collected on April 6 and 13, 2006. The lab received the samples on April 14, 2006 in good condition. The samples were analyzed for low level Semivolatile list of organic analytes. All samples were analyzed according to CLP SOW SOM01.1 (5/2005). The samples were validated according to USEPA CLP National Functional Guidelines for Superfund Organic Methods Data Review (1/2005).

Even though samples E0037 and E0038 had the same collection date and time, this reviewer did not regard them as duplicates.

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0032
Laboratory: Envirosystems

1. HOLDING TIME

The following Semivolatile sample was beyond the maximum holding time of fourteen (14) days from sample collection to extraction. The results are qualified "J" and non-detects are qualified "UJ".

E0033

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No defects were found.

3. CALIBRATION

The following Semivolatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria (20.0%). Hits are qualified "J" and non-detects are qualified "UJ".

Indeno (1,2,3-cd) pyrene (25.7%), **Dibenzo (a,h) anthracene** (27.4%)
E0032, E0033, E0034, E0036, E0037, E0038, E0038MS, E0038MSD, E0039, E0040, SBLK16

The following Semivolatile samples are associated with the closing continuing calibration percent difference (%D) outside primary criteria (50.0%). Detected results for this compound were not reported in the samples and the non-detected results should be qualified "UJ".

Dibenzo (a,h) anthracene (52.0%)
E0032, E0033, E0034, E0036, E0037, E0038, E0038MS, E0038MSD, E0039, E0040, SBLK16

4. BLANKS

The following Semivolatile samples have analyte concentrations reported below the CRQL and less than or equal to the associated Method Blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not qualified for samples E0032 and E0039. Hit is qualified "UJ" for sample E0033 because of holding time.

Acetophenone
E0032, E0033, E0039

The following Semivolatile samples have TIC concentration less than five times (5X) the associated Method Blank and is qualified "U".

E0032, E0039

5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY

The following Semivolatile sample has Deuterated Monitoring Compound recovery above the QC limits (1-121%). No action is taken since the compound 4,6-Dinitro-2-methylphenol was not detected in the sample.

E0033 (137%)
4,6-Dinitro-2-methylphenol

The following semivolatile water samples have Deuterated Monitoring Compound recoveries below the QC limits (1-145%). Detected results for these compounds were not reported in the samples and the non-detected results should be qualified "R".

E0036, E0039
4-Chloroaniline, Hexachlorocyclopentadiene, 3,3'-Dichlorobenzidine

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No defects were found.

7. FIELD BLANK AND FIELD DUPLICATE

There are no Field Blanks or Field Duplicates with this data package. Results are not qualified based upon the results of the field duplicates.

8. INTERNAL STANDARDS

No defects were found.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all SVOA compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following Semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E0032
2-Methylnaphthalene, Diethylphthalate, Phenanthrene, Fluoranthene, Pyrene, Benzo (a) anthracene, Chrysene

E0033
Isophorone, 1,1'-Biphenyl, Fluorene, bis (2-Ethylhexyl) phthalate

E0034
Naphthalene, Dibenzofuran, Anthracene

E0036
2-Methylnaphthalene, Phenanthrene

E0037
Phenanthrene

E0038MS
Phenanthrene, Di-n-butylphthalate

E0039
Di-n-butylphthalate

E0040
1,1'-Biphenyl, Fluorene, Anthracene, Di-n-butylphthalate, Benzo (a) anthracene, Chrysene

SBLK16
Acetophenone

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

12. ADDITIONAL INFORMATION

The Chain of Custody shows that the samples should be analyzed for Volatile and Semivolatile organic analytes. The laboratory only provided the Semivolatile target analytes in this package.

In accordance to the USEPA CLP National Functional Guidelines for Superfund Organic Methods Data Review (1/2005) all the Semivolatile results should be rejected because the closing CCV was beyond the 12 hour clock. However, the sample analyses were conducted within the 12 hour clock of the opening CCVs. The narrative states that the closing CCV was not injected within the 12 hour clock due to GC/MS stoppage at night.

The closing CCV was done immediately the following morning in order to track the instrument's stability. The closing CCV had only one (1) compound greater than 50% and is discussed in the Calibration section of this narrative; therefore, no action should be taken since the laboratory demonstrated the instrument's continued stability. A copy of the BNA GC/MS Instrument Injection Log is included with the hard copy data for this SDG.

The following semivolatile samples list semivolatile target analytes as TICs. Hit are qualified "J".

E0034
2-Methylnaphthalene

CADRE did not print the results for the following Semivolatile samples. The end user should refer to the hard copy Form 1s.

E0038MS, E0038MSD, SBLK16

CADRE did not print out all the Semivolatile TICs found in each sample. The end user should refer to the enclosed hard copy for the results.

There are no sample tags with this package. Log sheet DC-1 states that the sample tags were present. The sample tags were located with case number 35229 sdg E0001.

In the EDD electronic file sample E0034 CADRE listed the compound twice as [Naphthalene, 2-Methyl-] EDD line 157 and [2-Methylnaphthene] EDD line 158. Both [Naphthalene, 2-Methyl-] and [2-Methylnaphthene] are the same compound having the same CAS number. This caused the results to be reported one off. This reviewer has entered the correct flags for the compounds.

CADRE used OLM04.3 CRQL values of 330 µg/Kg and 830 µg/Kg instead of SOM01.1 CRQL values of 170 µg/Kg and 330 µg/Kg for the Semivolatile fraction. Detected values were corrected in the spreadsheets.

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present.)

Analytical Results (Qualified Data)

Case #: 35229 SDG : E0032
Site DUNAVAN OIL
Lab. . ENVSYS
Reviewer :
Date :

Number of Soil Samples . 8
Number of Water Samples : 0
Number of Sediment Samples : 0

Sample Number :	E0032		E0033		E0034		E0036		E0037	
Sampling Location :	X116		X117		X118		S103		S104	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/13/2006		4/6/2006		4/13/2006		4/13/2006		4/13/2006	
Time Sampled :										
%Moisture :	14		39		30		49		17	
pH :	8 6		7 9		8 3		6.7		7.8	
Dilution Factor :	1.0		1.0		1 0		1 0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	400	U	560	UJ	490	U	670	U	410	U
Phenol	400	U	590	J	490	U	670	U	410	U
Bis(2-Chloroethyl)ether	400	U	560	UJ	490	U	670	U	410	U
2-Chlorophenol	400	U	560	UJ	490	U	670	U	410	U
2-Methylphenol	400	U	560	UJ	490	U	670	U	410	U
2,2'-Oxybis(1-chloropropane)	400	U	560	UJ	490	U	670	U	410	U
Acetophenone	400	U	560	UJ	490	U	670	U	410	U
4-Methylphenol	400	U	560	UJ	490	U	670	U	410	U
N-Nitroso-di-n-propylamine	400	U	560	UJ	490	U	670	U	410	U
Hexachloroethane	400	U	560	UJ	490	U	670	U	410	U
Nitrobenzene	400	U	560	UJ	490	U	670	U	410	U
Isophorone	400	U	230	J	490	U	670	U	410	U
2-Nitrophenol	400	U	560	UJ	490	U	670	U	410	U
2,4-Dimethylphenol	400	U	560	UJ	490	U	670	U	410	U
Bis(2-chloroethoxy)methane	400	U	560	UJ	490	U	670	U	410	U
2,4-Dichlorophenol	400	U	560	UJ	490	U	670	U	410	U
Naphthalene	400	U	510	J	160	J	670	U	410	U
4-Chloroaniline	400	U	560	UJ	490	U	670	R	410	U
Hexachlorobutadiene	400	U	560	UJ	490	U	670	U	410	U
Caprolactam	400	U	560	UJ	490	U	670	U	410	U
4-Chloro-3-methylphenol	400	U	560	UJ	490	U	670	U	410	U
2-Methylnaphthalene	48	J	1000	J	540	J	150	J	410	U
Hexachlorocyclopentadiene	400	U	560	UJ	130	U	670	R	410	U
2,4,6-Trichlorophenol	400	U	560	UJ	490	U	670	U	410	U
2,4,5-Trichlorophenol	400	U	560	UJ	490	U	670	U	410	U
1,1'-Biphenyl	400	U	230	J	490	U	670	U	410	U
2-Chloronaphthalene	400	U	560	UJ	490	U	670	U	410	U
2-Nitroaniline	770	U	1100	UJ	490	U	1300	U	800	U
Dimethylphthalate	400	U	560	UJ	940	U	670	U	410	U
2,6-Dinitrotoluene	400	U	560	UJ	490	U	670	U	410	U
Acenaphthylene	400	U	560	UJ	490	U	670	U	410	U
3-Nitroaniline	770	U	1100	UJ	490	U	1300	U	800	U
Acenaphthene	400	U	560	UJ	940	U	670	U	410	U

Analytical Results (Qualified Data)

Case # 35229 SDG E0032
Site : DUNAVAN OIL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number	E0032		E0033		E0034		E0036		E0037	
Sampling Location	X116		X117		X118		S103		S104	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/13/2006		4/6/2006		4/13/2006		4/13/2006		4/13/2006	
Time Sampled :										
%Moisture :	14		39		30		49		17	
pH :	8 6		7.9		8 3		6 7		7.8	
Dilution Factor :	1 0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	770	U	1100	UJ	490	U	1300	UJ	800	UJ
4-Nitrophenol	770	U	1100	UJ	940	U	1300	U	800	U
Dibenzofuran	400	U	560	UJ	160	J	670	U	410	U
2,4-Dinitrotoluene	400	U	560	UJ	490	U	670	U	410	U
Diethylphthalate	110	J	560	UJ	490	U	670	U	410	U
Fluorene	400	U	71	J	490	U	670	U	410	U
4-Chlorophenyl-phenylether	400	U	560	UJ	490	U	670	U	410	U
4-Nitroaniline	770	U	1100	UJ	490	U	1300	U	800	U
4,6-Dinitro-2-methylphenol	770	U	1100	UJ	940	U	1300	U	800	U
N-Nitrosodiphenylamine	400	U	560	UJ	940	U	670	U	410	U
1,2,4,5-Tetrachlorobenzene	400	U	560	UJ	490	U	670	U	410	U
4-Bromophenyl-phenylether	400	U	560	UJ	490	U	670	U	410	U
Hexachlorobenzene	400	U	560	UJ	490	U	670	U	410	U
Atrazine	400	U	560	UJ	490	U	670	U	410	U
Pentachlorophenol	770	U	1100	UJ	490	U	1300	U	800	U
Phenanthrene	100	J	2300	J	850		190	J	46	J
Anthracene	400	U	560	UJ	130	J	670	U	410	U
Carbazole	400	U	560	UJ	490	U	670	U	410	U
Di-n-butylphthalate	400	U	560	UJ	490	U	670	U	410	U
Fluoranthene	96	J	980	J	1000		670	U	410	U
Pyrene	100	J	1100	J	1100		670	U	410	U
Butylbenzylphthalate	400	U	560	UJ	490	U	670	U	410	U
3,3'-Dichlorobenzidine	400	U	560	UJ	490	U	670	R	410	UJ
Benzo(a)anthracene	61	J	770	J	650		670	U	410	U
Chrysene	70	J	1000	J	760		670	U	410	U
Bis(2-ethylhexyl)phthalate	400	U	180	J	490	U	670	U	410	U
Di-n-octylphthalate	400	U	560	UJ	490	U	670	U	410	U
Benzo(b)fluoranthene	400	U	490	J	790		670	U	410	U
Benzo(k)fluoranthene	400	U	560	UJ	610		670	U	410	U
Benzo(a)pyrene	400	U	330	J	550		670	U	410	U
Indeno(1,2,3-cd)pyrene	400	UJ	410	J	480	J	670	UJ	410	UJ
Dibenzo(a,h)anthracene	400	UJ	560	UJ	240	UJ	670	UJ	410	UJ
Benzo(g,h,i)perylene	400	U	560	UJ	490	U	670	U	410	U
2,3,4,6-Tetrachlorophenol	400	U	560	UJ	490	U	670	U	410	U

Analytical Results (Qualified Data)

Case #: 35229 SDG : E0032
Site : DUNAVAN OIL
Lab : ENVSYS
Reviewer :
Date :

Sample Number :	E0038		E0039		E0040					
Sampling Location :	S105		S109		S110					
Matrix :	Soil		Soil		Soil					
Units :	ug/Kg		ug/Kg		ug/Kg					
Date Sampled :	4/13/2006		4/13/2006		4/13/2006					
Time Sampled :										
%Moisture :	31		40		47					
pH :	7.5		7.4		4.2					
Dilution Factor :	1.0		1.0		1.0					
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	490	U	570	U	640	U				
Phenol	490	U	570	U	640	U				
Bis(2-Chloroethyl)ether	490	U	570	U	640	U				
2-Chlorophenol	490	U	570	U	640	U				
2-Methylphenol	490	U	570	U	640	U				
2,2'-Oxybis(1-chloropropane)	490	U	570	U	640	U				
Acetophenone	490	U	570	U	710					
4-Methylphenol	490	U	570	U	640	U				
N-Nitroso-di-n-propylamine	490	U	570	U	640	U				
Hexachloroethane	490	U	570	U	640	U				
Nitrobenzene	490	U	570	U	640	U				
Isophorone	490	U	570	U	640	U				
2-Nitrophenol	490	U	570	U	640	U				
2,4-Dimethylphenol	490	U	570	U	640	U				
Bis(2-chloroethoxy)methane	490	U	570	U	640	U				
2,4-Dichlorophenol	490	U	570	U	640	U				
Naphthalene	490	U	570	U	480					
4-Chloroaniline	490	U	570	R	640	U				
Hexachlorobutadiene	490	U	570	U	640	U				
Caprolactam	490	U	570	U	640	U				
4-Chloro-3-methylphenol	490	U	570	U	640	U				
2-Methylnaphthalene	490	U	570	U	2900					
Hexachlorocyclopentadiene	490	U	570	U	640	U				
2,4,6-Trichlorophenol	490	U	570	U	640	U				
2,4,5-Trichlorophenol	490	U	570	U	640	U				
1,1'-Biphenyl	490	U	570	U	140	J				
2-Chloronaphthalene	490	U	570	U	640	U				
2-Nitroaniline	960	U	1100	U	1200	U				
Dimethylphthalate	490	U	570	U	640	U				
2,6-Dinitrotoluene	490	U	570	U	640	U				
Acenaphthylene	490	U	570	U	640	U				
3-Nitroaniline	960	U	1100	U	1200	U				
Acenaphthene	490	U	570	U	640	U				

Analytical Results (Qualified Data)

Case #: 35229 SDG : E0032
Site : DUNAVAN OIL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0038		E0039		E0040					
Sampling Location :	S105		S109		S110					
Matrix :	Soil		Soil		Soil					
Units :	ug/Kg		ug/Kg		ug/Kg					
Date Sampled :	4/13/2006		4/13/2006		4/13/2006					
Time Sampled :										
%Moisture :	31		40		47					
pH :	7.5		7.4		4 2					
Dilution Factor :	1.0		1.0		1.0					
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	960	U	1100	U	1200	U				
4-Nitrophenol	960	U	1100	U	1200	U				
Dibenzofuran	490	U	570	U	810					
2,4-Dinitrotoluene	490	U	570	U	640	U				
Diethylphthalate	490	U	570	U	640	U				
Fluorene	490	U	570	U	150	J				
4-Chlorophenyl-phenylether	490	U	570	U	640	U				
4-Nitroaniline	960	U	1100	U	1200	U				
4,6-Dinitro-2-methylphenol	960	U	1100	U	1200	U				
N-Nitrosodiphenylamine	490	U	570	U	640	U				
1,2,4,5-Tetrachlorobenzene	490	U	570	U	640	U				
4-Bromophenyl-phenylether	490	U	570	U	640	U				
Hexachlorobenzene	490	U	570	U	640	U				
Atrazine	490	U	570	U	640	U				
Pentachlorophenol	960	U	1100	U	1200	U				
Phenanthrene	490	U	570	U	3400					
Anthracene	490	U	570	U	300	J				
Carbazole	490	U	570	U	640	U				
Di-n-butylphthalate	490	U	570	U	84	J				
Fluoranthene	490	U	570	U	340					
Pyrene	490	U	570	U	410					
Butylbenzylphthalate	490	U	570	U	640	U				
3,3'-Dichlorobenzidine	490	U	570	U	640	U				
Benzo(a)anthracene	490	U	570	U	210	J				
Chrysene	490	U	570	U	230	J				
Bis(2-ethylhexyl)phthalate	490	U	570	U	640	U				
Di-n-octylphthalate	490	U	570	U	640	U				
Benzo(b)fluoranthene	490	U	570	U	640	U				
Benzo(k)fluoranthene	490	U	570	U	640	U				
Benzo(a)pyrene	490	U	570	U	640	U				
Indeno(1,2,3-cd)pyrene	490	UJ	570	UJ	640	UJ				
Dibenzo(a,h)anthracene	490	UJ	570	UJ	640	UJ				
Benzo(g,h,i)perylene	490	UJ	570	UJ	640	UJ				
2,3,4,6-Tetrachlorophenol	490	U	570	U	640	U				

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0032 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31425

BNA Sample=E0032 Location=X116 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkane TICs		170	ug/kg	J
E966796	Total Alkane TICs		170		
Unknown-01	Unknown-01	17.46	170		J
111-06-8	Hexadecanoic acid, butyl ester	22.2	670		JN

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0032 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31425

BNA Sample=E0033 Location=X117 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkane TICs		12000	ug/kg	J
E966796	Total Alkane TICs		12000		
1000157-89-9	(+)-.alpha.-Terpineol (p-menth-1-en-8-ol	10.98	540		JN
Unknown-01	Unknown-01	12.47	480		J
90-12-0	Naphthalene, 1-methyl-	12.76	870		JN
582-16-1	Naphthalene, 2,7-dimethyl-	14	710		JN
581-40-8	Naphthalene, 2,3-dimethyl-	14.2	1300		JN
571-61-9	Naphthalene, 1,5-dimethyl-	14.25	950		JN
573-98-8	Naphthalene, 1,2-dimethyl-	14.46	870		JN
829-26-5	Naphthalene, 2,3,6-trimethyl-	15.53	470		JN
2245-38-7	Naphthalene, 1,6,7-trimethyl-	15.6	640		JN
2131-42-2	Naphthalene, 1,4,6-trimethyl-	15.83	570		JN
599-64-4	Phenol, 4-(1-methyl-1-phenylethyl)-	19.22	1100		JN
84-69-5	1,2-Benzenedicarboxylic acid, bis(2-meth	19.27	1400		JN
613-12-7	Anthracene, 2-methyl-	19.74	810		JN

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0032 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31425

BNA Sample=E0034 Location=X118 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkane TICs		1800	ug/kg	J
E966796	Total Alkane TICs		1800		
91-57-6	Naphthalene, 2-methyl-	12.76	440		JN
571-61-9	Naphthalene, 1,5-dimethyl-	14	270		JN
581-40-8	Naphthalene, 2,3-dimethyl-	14.2	610		JN
571-58-4	Naphthalene, 1,4-dimethyl-	14.66	150		JN
2131-41-1	Naphthalene, 1,4,5-trimethyl-	15.53	160		JN
2245-38-7	Naphthalene, 1,6,7-trimethyl-	15.59	250		JN
829-26-5	Naphthalene, 2,3,6-trimethyl-	15.83	190		JN
941-81-1	Azulene, 4,6,8-trimethyl-	16.3	180		JN
7320-53-8	Dibenzofuran, 4-methyl-	16.68	160		JN
947-91-1	Benzeneacetaldehyde, .alpha.-phenyl-	17.16	230		JN
Unknown-01	Unknown-01	17.41	250		J
486-25-9	9H-Fluoren-9-one	18.01	270		JN
15295-31-5	1,3-Pentadiene, 1,1-diphenyl-, (Z)-	19.19	220		JN
613-12-7	Anthracene, 2-methyl-	19.73	280		JN
610-48-0	Anthracene, 1-methyl-	19.98	230		JN
111-06-8	Hexadecanoic acid, butyl ester	22.21	2600		JN
123-95-5	Octadecanoic acid, butyl ester	23.9	2900		JN

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0032 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31425

BNA Sample=E0036 Location=S103 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkane TICs		1100	ug/kg	J
E966796	Total Alkane TICs		1100		
581-40-8	Naphthalene, 2,3-dimethyl-	14.2	170		JN
Unknown-01	Unknown-01	17.46	380		J
111-06-8	Hexadecanoic acid, butyl ester	22.2	3400		JN
123-95-5	Octadecanoic acid, butyl ester	23.9	3800		JN

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0032 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31425

BNA Sample=E0037 Location=S104 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkane TICs		120	ug/kg	J
E966796	Total Alkane TICs		120		
Unknown-01	Unknown-01	17.46	120		J
111-06-8	Hexadecanoic acid, butyl ester	22.2	1800		JN
123-95-5	Octadecanoic acid, butyl ester	23.9	3700		JN

National Functional Guidelines Report # 9

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0032 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31425

BNA Sample=E0038 Location=S105 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkane TICs		160	ug/kg	J
E966796	Total Alkane TICs		160		
Unknown-01	Unknown-01	17.46	160		J
111-06-8	Hexadecanoic acid, butyl ester	22.2	2600		JN
123-95-5	Octadecanoic acid, butyl ester	23.9	3100		JN

National Functional Guidelines Report # 9

13:45 Fri, Jun 2, 2006

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0032 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31425

BNA Sample=E0039 Location=S109 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkane TICs		390	ug/kg	J
E966796	Total Alkane TICs		390		
57-10-3	n-Hexadecanoic acid	20.1	170		JN
111-06-8	Hexadecanoic acid, butyl ester	22.2	4500		JN
7683-64-9	Squalene	27.26	330		JN
Unknown-01	Unknown-01	28.99	390		J
469-38-5	9,19-Cyclolanost-24-en-3-ol, (3.beta.)-	31.1	2700		JN
58-22-0	Testosterone	32.23	1100		JN

National Functional Guidelines Report # 9

13 45 Fri, Jun 2, 2006

Lab ENVSYS (Envirosystems, Inc.) **SDG** E0032 **Case** 35229 **Contract** EPW05033 **Region** 5 **DDTID** 31425

BNA Sample=E0040 Location=S110 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkane TICs		7700	ug/kg	J
E966796	Total Alkane TICs		7700		
493-02-7	Naphthalene, decahydro-, trans-	8.84	890		JN
90-12-0	Naphthalene, 1-methyl-	12.76	2400		JN
1127-76-0	Naphthalene, 1-ethyl-	13.86	980		JN
581-42-0	Naphthalene, 2,6-dimethyl-	14	1700		JN
581-40-8	Naphthalene, 2,3-dimethyl-	14.21	3500		JN
582-16-1	Naphthalene, 2,7-dimethyl-	14.25	2700		JN
571-61-9	Naphthalene, 1,5-dimethyl-	14.67	1000		JN
643-93-6	1,1'-Biphenyl, 3-methyl-	15.01	980		JN
Unknown-01	Unknown-01	15.07	1000		J
2027-17-0	Naphthalene, 2-(1-methylethyl)-	15.27	860		JN
829-26-5	Naphthalene, 2,3,6-trimethyl-	15.53	950		JN
2245-38-7	Naphthalene, 1,6,7-trimethyl-	15.6	1500		JN
2443-58-5	2-Hydroxyfluorene	16.69	980		JN
947-91-1	Benzeneacetaldehyde, .alpha.-phenyl-	17.16	3900		JN
610-48-0	Anthracene, 1-methyl-	19.73	1200		JN
949-41-7	1H-Cyclopropa[l]phenanthrene,1a,9b-dihyd	19.93	1500		JN
111-06-8	Hexadecanoic acid, butyl ester	22.21	3600		JN
123-95-5	Octadecanoic acid, butyl ester	23.9	2200		JN

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 26 May 04

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: DUNAVAN Oil (IL)

CASE NUMBER: 35229 SDG NUMBER: E0032

Number and Type of Samples: 8 soil samples

Sample Numbers: E0032-34; 36-40

Laboratory: ENVIROSYSTEMS, INC. Hrs for Review: _____

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Contract Laboratory Program

Sample Delivery Group (SDG) Cover Sheet

SDG Number E0032

Laboratory Name **ENVIROSYSTEMS, INC** Laboratory Code **ENVSYS**

Contract No. **EP-W-05-033** Case No. 35229

Analysis Price _____ SDG Turnaround 21 DAYS

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E0032	7) E0039	13)	19)
2) E0033	8) E0040	14)	20)
3) E0034	9)	15) PL 4/18/06	21) PL 4/15/06
4) E0036	10) PL 4/18/06	16)	22)
5) E0037	11)	17)	23)
6) E0038	12)	18)	24)

E0032	E0040
First Sample in SDG	Last Sample in SDG
4/14/06	4/14/06
First Sample Receipt Date	Last Sample Receipt Date

Note: There are a maximum of 20 field samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).

Signature Paul Lerch Date 4/18/06

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229
DAS No:
SDG No: E0032/E0010

L

Date Shipped:	4/13/2006
Carrier Name:	UPS
Airbill:	1Z6215892210024179
Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330

Chain of Custody Record

Sampler Signature: Lance Range

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Bryl Walker	4/13/06 1200	Barbara Crook	4/14/06 10:00
2			
3			
4			

For Lab Use Only

Lab Contract No: EPW05033
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0032	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263470, 263471 (2)	X116	S: 4/13/2006	8:30	ME0032	
E0033	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263474, 263475 (2)	X117	S: 4/6/2006	8:45	ME0033	
E0034	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263478, 263479 (2)	X118	S: 4/13/2006	9:00	ME0034	
E0035	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263481 (HCL), 263482 (HCL), 263483 (HCL), 263484 (HCL), 263485 (HCL), 263486, 263487 (12)	G106	S: 4/13/2006	10:00	ME0035	
E0036	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263490, 263491, 263493 (3)	S103	S: 4/13/2006	10:05	ME0036	original in E0001 CASE 35229
E0037	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263494, 263495, 263497 (3)	S104	S: 4/13/2006	11:00	ME0037	
E0038	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263498, 263499, 263601 (3)	S105	S: 4/13/2006	11:00	ME0038	
E0039	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263602, 263603, 263605 (3)	S109	S: 4/13/2006	10:20	ME0039	
E0040	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263606, 263607, 263609 (3)	S110	S: 4/13/2006	10:40	ME0040	

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E0016, E0024, E0038		3°C	82817-82820
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? / Shipment Iced?

CLP ARO = CLP TCL PCB (Aroclors), CLP PEST = CLP TCL Pesticide, CLP SVOA = CLP TCL Semivolatile, CLP SVSIM = CLP TCL Semivolatiles-SIM, CLP TVOA = CLP TCL Trace Volatiles, CLP TVSIM = CLP TCL Trace Volatiles-SIM, VOA = CLP TCL Volatiles

TR Number: 5-314975591-041306-0002

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: ple Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr ntilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

F2V5

SDG NARRATIVE

LABORATORY NAME: ENVIROSYSTEMS, INC.

CASE #: 35229 SDG #: E0032 REGION: V

CONTRACT: EPW05033

DATE SAMPLES RECEIVED AT LABORATORY: 14 APRIL 2006

SAMPLE ANALYSES INCLUDED IN THIS REPORT:

EPA SAMPLE #	LAB ID #	ANALYSIS	MATRIX	VOA pH
E0032	0060414-01	BNA	SOIL	NA
E0033	0060414-02	BNA	SOIL	NA
E0034	0060414-03	BNA	SOIL	NA
E0036	0060414-04	BNA	SOIL	NA
E0037	0060414-05	BNA	SOIL	NA
E0038	0060414-06	BNA	SOIL	NA
E0039	0060414-07	BNA	SOIL	NA
E0040	0060414-08	BNA	SOIL	NA

Matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on sample E0038 for semivolatiles.

Samples for this contract are analyzed by EPA SOW SOM1.1 for multi-media multi-concentration organics.

The cooler temperature was measured to be 3 degrees C.

SEMIVOLATILES SECTION:

The semi-volatile analysis was performed on a Hewlett Packard 5973 MSD using an HP-5MS 30 meter column with an inner diameter of 0.25 mm and a 0.25 micron film thickness.

Samples E0036 and E0039 had 0% recoveries for the surrogate 4-Chloroaniline-d4. However, this surrogate has a lower QC limit of 1% recovery and is known to be highly reactive.

The ending CCV SSTD020I2 was not injected within 12 hours of the tune due to the GC/MS stopping at night. The ending CCV was injected immediately the following morning. This CCV had one compound greater than 50%D at 52%D.

All other QC criteria were met for all the samples in this SDG.

All of the eighteen MS/MSD recoveries and all of the nine MS/MSD RPD values were within the EPA advisory QC limits.

Manual integrations were performed on the following samples and/or standards

due to poor peak shape, coelution and/or low response: SSTD080I9, E0040, E0033 and E0034.

I CERTIFY THAT THIS DATA PACKAGE IS IN COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE CONTRACT, BOTH TECHNICALLY AND FOR COMPLETENESS, FOR OTHER THAN THE CONDITIONS DETAILED ABOVE. RELEASE OF THE DATA CONTAINED IN THIS HARDCOPY DATA PACKAGE AND IN THE COMPUTER-READABLE DATA SUBMITTED ON DISKETTE HAS BEEN AUTHORIZED BY THE LABORATORY MANAGER OR HIS/HER DESIGNEE, AS VERIFIED BY THE FOLLOWING SIGNATURE:

Mohan Khare DATE: 5/25/06

Dr. Mohan Khare
Organics Section Manager

25 May 2006

2J - FORM II SV-3
SOIL SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0032

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	E0032	79	74	79	70	77	81	78	2
02	E0033	88	75	85	79	80	92	86	3
03	E0034	85	76	84	73	80	89	86	1
04	E0036	63	57	62	57	58	61	61	*
05	E0037	85	80	85	75	82	86	83	1
06	E0038	80	74	79	70	76	79	78	2
07	E0038MS	87	80	85	78	80	94	88	1
08	E0038MSD	77	71	78	68	75	80	78	1
09	E0039	71	63	69	63	68	69	72	*
10	E0040	81	73	79	75	75	84	83	8
11	SBLK16	90	85	91	81	89	90	89	4
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

			QC LIMITS
SDMC1	(PHL)	= Phenol-d5	(17-103)
SDMC2	(BCE)	= Bis(2-chloroethyl)ether-d8	(12-98)
SDMC3	(2CP)	= 2-Chlorophenol-d4	(13-101)
SDMC4	(4MP)	= 4-Methylphenol-d8	(8-100)
SDMC5	(NBZ)	= Nitrobenzene-d5	(16-103)
SDMC6	(2NP)	= 2-Nitrophenol-d4	(16-104)
SDMC7	(DCP)	= 2,4-Dichlorophenol-d3	(23-104)
SDMC8	(4CA)	= 4-Chloroaniline-d4	(1-145)

Column to be used to flag recovery values
* Value outside of contract required QC limits
D DMC diluted out

00010

2K - FORM II SV-4
SOIL SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case 35229 Mod. Ref No.: _____ SDG No.: E0032

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC9 (DMP) #	SDMC10 (ACY) #	SDMC11 (4NP) #	SDMC12 (FLR) #	SDMC13 (NMP) #	SDMC14 (ANC) #	SDMC15 (PYR) #	SDMC16 (BAP) #	TOT OUT
01	E0032	85	83	79	83	83	77	85	83	0
02	E0033	84	81	94	68	137 *	85	87	43	1
03	E0034	91	88	104	88	103	82	84	84	0
04	E0036	66	65	61	65	56	60	56	61	0
05	E0037	90	88	77	88	71	81	84	84	0
06	E0038	84	83	73	82	67	75	81	77	0
07	E0038MS	90	85	103	87	101	80	76	88	0
08	E0038MSD	83	82	81	80	76	74	80	78	0
09	E0039	77	74	77	75	77	70	73	74	0
10	E0040	76	73	108	77	119	83	75	77	0
11	SBLK16	100	97	90	99	86	89	94	73	0
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

	QC LIMITS
SDMC9 (DMP) = Dimethylphthalate-d6	(43-111)
SDMC10 (ACY) = Acenaphthylene-d8	(20-97)
SDMC11 (4NP) = 4-Nitrophenol-d4	(16-166)
SDMC12 (FLR) = Fluorene-d10	(40-108)
SDMC13 (NMP) = 4,6-Dinitro-2-methylphenol-d2	(1-121)
SDMC14 (ANC) = Anthracene-d10	(22-98)
SDMC15 (PYR) = Pyrene-d10	(51-120)
SDMC16 (BAP) = Benzo(a)pyrene-d12	(43-111)

Column to be used to flag recovery values
* Value outside of contract required QC limits
D DMC diluted out

00011

SOM01.1 (5/2005)

3D - FORM III SV-2
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0032

Matrix Spike - EPA Sample No.: E0038

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
Phenol	1900	ND	1700	88	26-90
2-Chlorophenol	1900	ND	1600	83	25-102
N-Nitroso-di-n-propylamine	1900	ND	1500	78	41-126
4-Chloro-3-methylphenol	1900	ND	1800	93	26-103
Acenaphthene	1900	ND	1600	83	31-137
4-Nitrophenol	1900	ND	1900	98	11-114
2,4-Dinitrotoluene	1900	ND	1700	88	28-89
Pentachlorophenol	1900	ND	1800	93	17-109
Pyrene	1900	ND	1800	93	35-142

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
Phenol	1900	1500	78	12	0-35	26-90
2-Chlorophenol	1900	1500	78	6	0-50	25-102
N-Nitroso-di-n-propylamine	1900	1300	67	15	0-38	41-126
4-Chloro-3-methylphenol	1900	1600	83	11	0-33	26-103
Acenaphthene	1900	1500	78	6	0-19	31-137
4-Nitrophenol	1900	1500	78	23	0-50	11-114
2,4-Dinitrotoluene	1900	1400	73	19	0-47	28-89
Pentachlorophenol	1900	1500	78	18	0-47	17-109
Pyrene	1900	1900	98	5	0-36	35-142

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 9 outside limits
Spike Recovery: 0 out of 18 outside limits

COMMENTS: _____

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
SBLK16

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0032

Lab File ID: AG73IA743.D Lab Sample ID: 0D62401-BLK2

Instrument ID: HP73I Date Extracted: 04/24/2006

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 05/01/2006

Level: (LOW/MED) LOW Time Analyzed: 1233

Extraction: (Type) SONC GPC Cleanup: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E0032	0060414-01	AG73IA744.D	05/01/2006
02	E0033	0060414-02	AG73IA750.D	05/01/2006
03	E0034	0060414-03	AG73IA751.D	05/01/2006
04	E0036	0060414-04	AG73IA745.D	05/01/2006
05	E0037	0060414-05	AG73IA746.D	05/01/2006
06	E0038	0060414-06	AG73IA747.D	05/01/2006
07	E0039	0060414-07	AG73IA748.D	05/01/2006
08	E0040	0060414-08	AG73IA749.D	05/01/2006
09	E0038MS	0D62401-MS1	AG73IA752.D	05/01/2006
10	E0038MSD	0D62401-MSD1	AG73IA753.D	05/01/2006
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

00013

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0032

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0032

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060414-01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA744.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14.0 Decanted: (Y/N) N Date Received: 04/14/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/01/2006

GPC Cleanup: (Y/N) Y pH: 8.6 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	7.95	84	JBN
02		UNKNOWN	17.46	170	J
03	111-06-8	Hexadecanoic acid, butyl ester	22.20	670	JN
04		UNKNOWN	31.33	230	J
05		UNKNOWN	33.24	1600	J
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	170	

[2] EPA-designated Registry Number.

BB 4/26/06

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0033

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0032

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060414-02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA750.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 39.0 Decanted: (Y/N) N Date Received: 04/14/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/01/2006

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	1000157-89-9	(+)-.alpha.-Terpineol (p-menth-1-	10.98	540	JN
02		UNKNOWN	12.09	470	J
03		UNKNOWN	12.47	480	J
04	90-12-0	Naphthalene, 1-methyl-	12.76	870	JN
05	582-16-1	Naphthalene, 2,7-dimethyl-	14.00	710	JN
06	581-40-8	Naphthalene, 2,3-dimethyl-	14.20	1300	JN
07	571-61-9	Naphthalene, 1,5-dimethyl-	14.25	950	JN
08	573-98-8	Naphthalene, 1,2-dimethyl-	14.46	870	JN
09	829-26-5	Naphthalene, 2,3,6-trimethyl-	15.53	470	JN
10	2245-38-7	Naphthalene, 1,6,7-trimethyl-	15.60	640	JN
11	2131-42-2	Naphthalene, 1,4,6-trimethyl-	15.83	570	JN
12		UNKNOWN	16.84	1500	J
13		UNKNOWN	17.97	1200	J
14		UNKNOWN	18.02	840	J
15	599-64-4	Phenol, 4-(1-methyl-1-phenylethyl	19.22	1100	JN
16	84-69-5	1,2-Benzenedicarboxylic acid, bis	19.27	1400	JN
17	613-12-7	Anthracene, 2-methyl-	19.74	810	JN
18		UNKNOWN	26.20	2000	J
19		UNKNOWN	27.05	2000	J
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	12000	

[2] EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0034

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0032

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060414-03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA751.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 30.0 Decanted: (Y/N) N Date Received: 04/14/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/01/2006

GPC Cleanup: (Y/N) Y pH: 8.3 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	7.33	370	J
02	91-57-6	Naphthalene, 2-methyl-	12.76	440	JN
03	571-61-9	Naphthalene, 1,5-dimethyl-	14.00	270	JN
04	581-40-8	Naphthalene, 2,3-dimethyl-	14.20	610	JN
05	571-58-4	Naphthalene, 1,4-dimethyl-	14.66	150	JN
06		UNKNOWN	15.07	190	J
07	2131-41-1	Naphthalene, 1,4,5-trimethyl-	15.53	160	JN
08	2245-38-7	Naphthalene, 1,6,7-trimethyl-	15.59	250	JN
09	829-26-5	Naphthalene, 2,3,6-trimethyl-	15.83	190	JN
10		UNKNOWN	16.27	170	J
11	941-81-1	Azulene, 4,6,8-trimethyl-	16.30	180	JN
12	7320-53-8	Dibenzofuran, 4-methyl-	16.68	160	JN
13	947-91-1	Benzeneacetaldehyde, .alpha.-phen	17.16	230	JN
14		UNKNOWN	17.41	250	J
15		UNKNOWN	17.96	370	J
16	486-25-9	9H-Fluoren-9-one	18.01	270	JN
17		UNKNOWN	19.07	220	J
18	15295-31-5	1,3-Pentadiene, 1,1-diphenyl-, (Z	19.19	220	JN
19	613-12-7	Anthracene, 2-methyl-	19.73	280	JN
20	610-48-0	Anthracene, 1-methyl-	19.98	230	JN
21	111-06-8	Hexadecanoic acid, butyl ester	22.21	2600	JN
22	123-95-5	Octadecanoic acid, butyl ester	23.90	2900	JN
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	1800	

[2] EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0036

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0032

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060414-04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA745.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 49.0 Decanted: (Y/N) N Date Received: 04/14/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/01/2006

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	7.32	290	J
02	581-40-8	Naphthalene, 2,3-dimethyl-	14.20	170	JN
03		UNKNOWN	17.15	140	J
04		UNKNOWN	17.46	380	J
05	111-06-8	Hexadecanoic acid, butyl ester	22.20	3400	JN
06		UNKNOWN	23.56	160	J
07		UNKNOWN	23.69	140	J
08	123-95-5	Octadecanoic acid, butyl ester	23.90	3800	JN
09		UNKNOWN	30.92	820	J
10		UNKNOWN	31.02	260	J
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	1100	

[2] EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0037

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0032

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060414-05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA746.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17.0 Decanted: (Y/N) N Date Received: 04/14/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/01/2006

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	7.33	110	J
02		UNKNOWN	17.46	120	J
03	111-06-8	Hexadecanoic acid, butyl ester	22.20	1800	JN
04		UNKNOWN	23.56	92	J
05		UNKNOWN	23.69	120	J
06	123-95-5	Octadecanoic acid, butyl ester	23.90	3700	JN
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	120	

[2] EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0038

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0032

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060414-06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA747.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 31.0 Decanted: (Y/N) N Date Received: 04/14/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/01/2006

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	7.33	100	J
02		UNKNOWN	17.46	160	J
03		UNKNOWN	18.47	97	J
04	111-06-8	Hexadecanoic acid, butyl ester	22.20	2600	JN
05	123-95-5	Octadecanoic acid, butyl ester	23.90	3100	JN
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	160	

[2] EPA-designated Registry Number.

00202

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0038MS

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0032

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D62401-MS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA752.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 31.0 Decanted: (Y/N) N Date Received: 04/14/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/01/2006

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
100-52-7	Benzaldehyde	250	U
108-95-2	Phenol	1700	
111-44-4	Bis(2-chloroethyl)ether	250	U
95-57-8	2-Chlorophenol	1600	
95-48-7	2-Methylphenol	250	U
108-60-1	2,2'-Oxybis(1-chloropropane)	250	U
98-86-2	Acetophenone	250	U
106-44-5	4-Methylphenol	250	U
621-64-7	N-Nitroso-di-n-propylamine	1500	
67-72-1	Hexachloroethane	250	U
98-95-3	Nitrobenzene	250	U
78-59-1	Isophorone	250	U
88-75-5	2-Nitrophenol	250	U
105-67-9	2,4-Dimethylphenol	250	U
111-91-1	Bis(2-chloroethoxy)methane	250	U
120-83-2	2,4-Dichlorophenol	250	U
91-20-3	Naphthalene	250	U
106-47-8	4-Chloroaniline	250	U
87-68-3	Hexachlorobutadiene	250	U
105-60-2	Caprolactam	250	U
59-50-7	4-Chloro-3-methylphenol	1800	
91-57-6	2-Methylnaphthalene	250	U
77-47-4	Hexachlorocyclopentadiene	250	U
88-06-2	2,4,6-Trichlorophenol	250	U
95-95-4	2,4,5-Trichlorophenol	250	U
92-52-4	1,1'-Biphenyl	250	U
91-58-7	2-Chloronaphthalene	250	U
88-74-4	2-Nitroaniline	480	U
131-11-3	Dimethylphthalate	250	U
606-20-2	2,6-Dinitrotoluene	250	U
208-96-8	Acenaphthylene	250	U
99-09-2	3-Nitroaniline	480	U
83-32-9	Acenaphthene	1600	

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0038MS

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0032

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D62401-MS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA752.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 31.0 Decanted: (Y/N) N Date Received: 04/14/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/01/2006

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	480	U
100-02-7	4-Nitrophenol	1900	
132-64-9	Dibenzofuran	250	U
121-14-2	2,4-Dinitrotoluene	1700	
84-66-2	Diethylphthalate	250	U
86-73-7	Fluorene	250	U
7005-72-3	4-Chlorophenyl-phenylether	250	U
100-01-6	4-Nitroaniline	480	U
534-52-1	4,6-Dinitro-2-methylphenol	480	U
86-30-6	N-Nitrosodiphenylamine[1]	250	U
95-94-3	1,2,4,5-Tetrachlorobenzene	250	U
101-55-3	4-Bromophenyl-phenylether	250	U
118-74-1	Hexachlorobenzene	250	U
1912-24-9	Atrazine	250	U
87-86-5	Pentachlorophenol	1800	
85-01-8	Phenanthrene	53	J
120-12-7	Anthracene	250	U
86-74-8	Carbazole	250	U
84-74-2	Di-n-butylphthalate	170	J
206-44-0	Fluoranthene	250	U
129-00-0	Pyrene	1800	
85-68-7	Butylbenzylphthalate	250	U
91-94-1	3,3'-Dichlorobenzidine	250	U
56-55-3	Benzo (a) anthracene	250	U
218-01-9	Chrysene	250	U
117-81-7	Bis(2-ethylhexyl) phthalate	250	U
117-84-0	Di-n-octylphthalate	250	U
205-99-2	Benzo (b) fluoranthene	250	U
207-08-9	Benzo (k) fluoranthene	250	U
50-32-8	Benzo (a) pyrene	250	U
193-39-5	Indeno (1,2,3-cd) pyrene	250	U
53-70-3	Dibenzo (a,h) anthracene	250	U
191-24-2	Benzo (g,h,i) perylene	250	U
58-90-2	2,3,4,6-Tetrachlorophenol	250	U

[1]Cannot be separated from Diphenylamine

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0038MSD

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0032

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D62401-MSD1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA753.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 31.0 Decanted: (Y/N) N Date Received: 04/14/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/01/2006

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
100-52-7	Benzaldehyde	250	U
108-95-2	Phenol	1500	
111-44-4	Bis(2-chloroethyl)ether	250	U
95-57-8	2-Chlorophenol	1500	
95-48-7	2-Methylphenol	250	U
108-60-1	2,2'-Oxybis(1-chloropropane)	250	U
98-86-2	Acetophenone	250	U
106-44-5	4-Methylphenol	250	U
621-64-7	N-Nitroso-di-n-propylamine	1300	
67-72-1	Hexachloroethane	250	U
98-95-3	Nitrobenzene	250	U
78-59-1	Isophorone	250	U
88-75-5	2-Nitrophenol	250	U
105-67-9	2,4-Dimethylphenol	250	U
111-91-1	Bis(2-chloroethoxy)methane	250	U
120-83-2	2,4-Dichlorophenol	250	U
91-20-3	Naphthalene	250	U
106-47-8	4-Chloroaniline	250	U
87-68-3	Hexachlorobutadiene	250	U
105-60-2	Caprolactam	250	U
59-50-7	4-Chloro-3-methylphenol	1600	
91-57-6	2-Methylnaphthalene	250	U
77-47-4	Hexachlorocyclopentadiene	250	U
88-06-2	2,4,6-Trichlorophenol	250	U
95-95-4	2,4,5-Trichlorophenol	250	U
92-52-4	1,1'-Biphenyl	250	U
91-58-7	2-Chloronaphthalene	250	U
88-74-4	2-Nitroaniline	480	U
131-11-3	Dimethylphthalate	250	U
606-20-2	2,6-Dinitrotoluene	250	U
208-96-8	Acenaphthylene	250	U
99-09-2	3-Nitroaniline	480	U
83-32-9	Acenaphthene	1500	

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0038MSD

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0032

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D62401-MSD1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA753.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 31.0 Decanted: (Y/N) N Date Received: 04/14/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/01/2006

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	480	U
100-02-7	4-Nitrophenol	1500	
132-64-9	Dibenzofuran	250	U
121-14-2	2,4-Dinitrotoluene	1400	
84-66-2	Diethylphthalate	250	U
86-73-7	Fluorene	250	U
7005-72-3	4-Chlorophenyl-phenylether	250	U
100-01-6	4-Nitroaniline	480	U
534-52-1	4,6-Dinitro-2-methylphenol	480	U
86-30-6	N-Nitrosodiphenylamine[1]	250	U
95-94-3	1,2,4,5-Tetrachlorobenzene	250	U
101-55-3	4-Bromophenyl-phenylether	250	U
118-74-1	Hexachlorobenzene	250	U
1912-24-9	Atrazine	250	U
87-86-5	Pentachlorophenol	1500	
85-01-8	Phenanthrene	250	U
120-12-7	Anthracene	250	U
86-74-8	Carbazole	250	U
84-74-2	Di-n-butylphthalate	250	U
206-44-0	Fluoranthene	250	U
129-00-0	Pyrene	1900	
85-68-7	Butylbenzylphthalate	250	U
91-94-1	3,3'-Dichlorobenzidine	250	U
56-55-3	Benzo (a) anthracene	250	U
218-01-9	Chrysene	250	U
117-81-7	Bis(2-ethylhexyl) phthalate	250	U
117-84-0	Di-n-octylphthalate	250	U
205-99-2	Benzo (b) fluoranthene	250	U
207-08-9	Benzo (k) fluoranthene	250	U
50-32-8	Benzo (a) pyrene	250	U
193-39-5	Indeno (1,2,3-cd) pyrene	250	U
53-70-3	Dibenzo (a,h) anthracene	250	U
191-24-2	Benzo (g,h,i) perylene	250	U
58-90-2	2,3,4,6-Tetrachlorophenol	250	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0039

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0032

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060414-07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA748.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 40.0 Decanted: (Y/N) N Date Received: 04/14/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/01/2006

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		UNKNOWN	7.33	120	J
02	111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	7.95	190	JBN
03	57-10-3	n-Hexadecanoic acid	20.10	170	JN
04	111-06-8	Hexadecanoic acid, butyl ester	22.20	4500	JN
05		UNKNOWN	23.71	130	J
06		UNKNOWN	23.78	230	J
07		UNKNOWN	23.90	230	J
08	7683-64-9	Squalene	27.26	330	JN
09		UNKNOWN	28.99	390	J
10		UNKNOWN	30.86	310	J
11		UNKNOWN	30.92	1500	J
12	469-38-5	9,19-Cyclolanost-24-en-3-ol, (3.b	31.10	2700	JN
13		UNKNOWN	31.17	1600	J
14		UNKNOWN	31.41	250	J
15		UNKNOWN	31.52	270	J
16		UNKNOWN	31.74	310	J
17	58-22-0	Testosterone	32.23	1100	JN
18		UNKNOWN	33.24	2000	J
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	390	

[2] EPA-designated Registry Number.

RB 6/26/06

00211

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E0040

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0032

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060414-08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA749.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 47.0 Decanted: (Y/N) N Date Received: 04/14/2006

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/01/2006

GPC Cleanup: (Y/N) Y pH: 4.2 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	493-02-7	Naphthalene, decahydro-, trans-	8.84	890	JN
02	90-12-0	Naphthalene, 1-methyl-	12.76	2400	JN
03	1127-76-0	Naphthalene, 1-ethyl-	13.86	980	JN
04	581-42-0	Naphthalene, 2,6-dimethyl-	14.00	1700	JN
05	581-40-8	Naphthalene, 2,3-dimethyl-	14.21	3500	JN
06	582-16-1	Naphthalene, 2,7-dimethyl-	14.25	2700	JN
07	571-61-9	Naphthalene, 1,5-dimethyl-	14.67	1000	JN
08	643-93-6	1,1'-Biphenyl, 3-methyl-	15.01	980	JN
09		UNKNOWN	15.07	1000	J
10	2027-17-0	Naphthalene, 2-(1-methylethyl)-	15.27	860	JN
11	829-26-5	Naphthalene, 2,3,6-trimethyl-	15.53	950	JN
12	2245-38-7	Naphthalene, 1,6,7-trimethyl-	15.60	1500	JN
13		UNKNOWN	16.12	1200	J
14	2443-58-5	2-Hydroxyfluorene	16.69	980	JN
15		UNKNOWN	16.84	2100	J
16	947-91-1	Benzeneacetaldehyde, .alpha.-phen	17.16	3900	JN
17		UNKNOWN	17.97	2000	J
18		UNKNOWN	19.07	1500	J
19	610-48-0	Anthracene, 1-methyl-	19.73	1200	JN
20	949-41-7	1H-Cyclopropa[l]phenanthrene,1a,9	19.93	1500	JN
21	111-06-8	Hexadecanoic acid, butyl ester	22.21	3600	JN
22	123-95-5	Octadecanoic acid, butyl ester	23.90	2200	JN
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	7700	

[2] EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK16

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0032

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D62401-BLK2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA743.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/01/2006

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
100-52-7	Benzaldehyde	170	U
108-95-2	Phenol	170	U
111-44-4	Bis(2-chloroethyl)ether	170	U
95-57-8	2-Chlorophenol	170	U
95-48-7	2-Methylphenol	170	U
108-60-1	2,2'-Oxybis(1-chloropropane)	170	U
98-86-2	Acetophenone	48	J
106-44-5	4-Methylphenol	170	U
621-64-7	N-Nitroso-di-n-propylamine	170	U
67-72-1	Hexachloroethane	170	U
98-95-3	Nitrobenzene	170	U
78-59-1	Isophorone	170	U
88-75-5	2-Nitrophenol	170	U
105-67-9	2,4-Dimethylphenol	170	U
111-91-1	Bis(2-chloroethoxy)methane	170	U
120-83-2	2,4-Dichlorophenol	170	U
91-20-3	Naphthalene	170	U
106-47-8	4-Chloroaniline	170	U
87-68-3	Hexachlorobutadiene	170	U
105-60-2	Caprolactam	170	U
59-50-7	4-Chloro-3-methylphenol	170	U
91-57-6	2-Methylnaphthalene	170	U
77-47-4	Hexachlorocyclopentadiene	170	U
88-06-2	2,4,6-Trichlorophenol	170	U
95-95-4	2,4,5-Trichlorophenol	170	U
92-52-4	1,1'-Biphenyl	170	U
91-58-7	2-Chloronaphthalene	170	U
88-74-4	2-Nitroaniline	330	U
131-11-3	Dimethylphthalate	170	U
606-20-2	2,6-Dinitrotoluene	170	U
208-96-8	Acenaphthylene	170	U
99-09-2	3-Nitroaniline	330	U
83-32-9	Acenaphthene	170	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK16

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0032

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D62401-BLK2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA743.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/01/2006

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	330	U
100-02-7	4-Nitrophenol	330	U
132-64-9	Dibenzofuran	170	U
121-14-2	2,4-Dinitrotoluene	170	U
84-66-2	Diethylphthalate	170	U
86-73-7	Fluorene	170	U
7005-72-3	4-Chlorophenyl-phenylether	170	U
100-01-6	4-Nitroaniline	330	U
534-52-1	4,6-Dinitro-2-methylphenol	330	U
86-30-6	N-Nitrosodiphenylamine[1]	170	U
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U
101-55-3	4-Bromophenyl-phenylether	170	U
118-74-1	Hexachlorobenzene	170	U
1912-24-9	Atrazine	170	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	170	U
120-12-7	Anthracene	170	U
86-74-8	Carbazole	170	U
84-74-2	Di-n-butylphthalate	170	U
206-44-0	Fluoranthene	170	U
129-00-0	Pyrene	170	U
85-68-7	Butylbenzylphthalate	170	U
91-94-1	3,3'-Dichlorobenzidine	170	U
56-55-3	Benzo (a) anthracene	170	U
218-01-9	Chrysene	170	U
117-81-7	Bis(2-ethylhexyl) phthalate	170	U
117-84-0	Di-n-octylphthalate	170	U
205-99-2	Benzo (b) fluoranthene	170	U
207-08-9	Benzo (k) fluoranthene	170	U
50-32-8	Benzo (a) pyrene	170	U
193-39-5	Indeno (1,2,3-cd) pyrene	170	U
53-70-3	Dibenzo (a,h) anthracene	170	U
191-24-2	Benzo (g,h,i) perylene	170	U
58-90-2	2,3,4,6-Tetrachlorophenol	170	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLK16

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0032

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D62401-BLK2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AG73IA743.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/24/2006

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/01/2006

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	7.95	94	JN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

ENVIROSYSTEMS, INC.

BNA GC/MS INSTRUMENT INJECTION LOG

DATE: 5-1-06 OPERATOR: GDM INSTRUMENT ID: HP73I

Injection Log

Directory: I:\01MAY06

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	AG73IA740.D	1.	0000092-TUN2, DFTPPIZ	DFTPP 50 ug/ml, 1ul Direct Injection	1 May 2006 10:18
2	2	AG73IA741.D	1.	0000092-CCV3, SSTD020IZ	BNA, SOM1.1	1 May 2006 11:01
3	3	AG73IA742.D	1.	0D62401-BLK1, SBLK15	BNA, SOM1.1, 35229(E0032)	1 May 2006 11:50
4	4	AG73IA743.D	1.	0D62401-BLK2, SBLK16	BNA, SOM1.1, 35229(E0032)	1 May 2006 12:33
5	5	AG73IA744.D	1.	0060414-01, E0032	BNA, SOM1.1, 35229(E0032)	1 May 2006 13:15
6	6	AG73IA745.D	1.	0060414-04, E0036	BNA, SOM1.1, 35229(E0032)	1 May 2006 13:58
7	7	AG73IA746.D	1.	0060414-05, E0037	BNA, SOM1.1, 35229(E0032)	1 May 2006 14:41
8	8	AG73IA747.D	1.	0060414-06, E0038	BNA, SOM1.1, 35229(E0032)	1 May 2006 15:23
9	9	AG73IA748.D	1.	0060414-07, E0039	BNA, SOM1.1, 35229(E0032)	1 May 2006 16:05
10	10	AG73IA749.D	1.	0060414-08, E0040	BNA, SOM1.1, 35229(E0032)	1 May 2006 16:48
11	11	AG73IA750.D	1.	0060414-02, E0033	BNA, SOM1.1, 35229(E0032)	1 May 2006 17:31
12	12	AG73IA751.D	1.	0060414-03, E0034	BNA, SOM1.1, 35229(E0032)	1 May 2006 18:13
13	13	AG73IA752.D	1.	0D62401-MS1, E0038MS	BNA, SOM1.1, 35229(E0032)	1 May 2006 18:56
14	14	AG73IA753.D	1.	0D62401-MSD1, E0038MSD	BNA, SOM1.1, 35229(E0032)	1 May 2006 19:38
15	15	AG73IA754.D	1.	GPC BLANK 042706	BNA, SOM1.1	1 May 2006 20:21
16	16	AG73IA755.D	1.	0000092-CCV4, SSTD020I2 (1)	BNA, SOM1.1	2 May 2006 09:22

passes SOM

GDM 5-2-06

NOTES: (1) GC stopped before ending std. ran. CCV ran first thing next morning.

Reviewed by:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E0032 CERCLIS No: ILD980794929

Case No: 35229 Site Name/Location: DUNAVAN OIL (IL)

Contractor or EPA Lab: ENVIROSYSTEMS Data User: IEPA

No. of Samples: 8 Date Sampled or Date Received: 5/26/04

Have Chain-of-Custody records been received? Yes X No ____
Have traffic reports or packing lists been received? Yes X No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

____ ____ ____ ____
____ ____ ____ ____

Are basic data forms in? Yes X No ____
No of samples claimed: ____ No. of samples received: ____

Received by: Adam Johnson Date: 5/26/04

Received by LSSS: Adam Johnson Date: 5/26/04

Review started: 26 JUNE 2006 Reviewer Signature: Richard W. Patterson

Total time spent on review: 5+3 Date review completed: 26 JUNE 2006

Copied by: A. C. Harvey Date: July 6, 2006

Mailed to user by: Adam Johnson Date: 7 July 04

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

____

____

Received by Data Mgmt. Coordinator for Files. Date: ____

DATE: July 12, 2006

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Bob Casper

SITE NAME: Dunavan Oil (IL)

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
35229	Envirosystems	8	E0033	Soil

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: U.S. EPA
Region 5
Central Regional Laboratory
536 S. Clark, 10th Floor
CHICAGO, IL 60605

JUL 17 2006

Sent By: James D. Burden
Chemist-ESAT Region 5
Techlaw, Inc.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: June 14, 2006

FROM: Stephen L. Ostrodka, Chief (SRT-4J) for Steve Ostrodka
Superfund Field Services Section
Richard L Byrd
7/12/06

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE Name: Dunavan Oil (IL)

Case Number: 35229 SDG Number: E0033

Number and Type of Samples: 8 (soil) (Pesticide and Aroclors)

Sample Numbers: E0032 through E0034 and E0036 through E0040

Laboratory: Envirosystems Inc. Hrs for Review:

Following are our findings:

the data are usable and acceptable with the qualifications described in the attached narrative.

Richard L Byrd

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0033
Laboratory: Envirosystems

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Eight (8) soil samples, numbered E0032 through E0034 and E0036 through E0040 were collected on April 6 and 13, 2006. The lab received the samples on April 14, 2006 in good condition. The samples were analyzed for Pesticide and Aroclor lists of organic analytes. All samples were analyzed according to CLP SOW SOM01.1 (5/2005). The samples were validated according to USEPA CLP National Functional Guidelines for Superfund Organic Methods Data Review (1/2005).

The Chain of Custody for the Pesticide and Aroclor fractions was not in this package. The laboratory inserted the Volatile and Semivolatile Chain of Custody. This reviewer is using the date of collections of the Volatile and Semivolatile fractions as the date for the Pesticide and Aroclors since the sample numbers are the same.

Even though samples E0037 and E0038 had the same collection date and time, this reviewer did not regard them as duplicates.

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0033
Laboratory: Envirosystems

1. HOLDING TIME

No defects were found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

The following Pesticide samples have a GPC performance check below the QC limits (80-110%) and above 10%. Hits are qualified "J" and non-detects are qualified "UJ".

Gamma-BHC (Lindane), Heptachlor, Aldrin
E0032, E0033, E0034, E0036, E0037, E0038, E0038MS, E0038MSD, E0039, E0040, PBLK16, PLCS16

3. CALIBRATION

The following Pesticide samples are associated with a continuing calibration whose corresponding initial calibration has relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Methoxychlor
E0032, E0033, E0033RE, E0033DL, E0034, E0036, E0037, E0038, E0038MS, E0038MSD, E0039, E0040, PBLK16, PLCS16

The following Pesticide samples are associated with a continuing calibration whose corresponding initial calibration PEM has percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Alpha-BHC, beta-BHC, gamma-BHC (Lindane), Methoxychlor
E0032, E0033, E0033RE, E0033DL, E0034, E0036, E0037, E0038, E0038MS, E0038MSD, E0039, E0040, PBLK16, PLCS16

The following Pesticide samples are associated with the opening and closing PEM continuing calibration percent difference (%D) outside primary criteria (25.0%). Hits are qualified "J" and non-detects are qualified "UJ".

Methoxychlor
E0032, E0033, E0033RE, E0033DL, E0034, E0036, E0037, E0038, E0038MS, E0038MSD, E0039, E0040, PBLK16, PLCS16

The following pesticide samples have an INDA/INDB that exceeded the QC criteria for the opening CCV. Hit are qualified "J" and non-detects are qualified "UJ"

Methoxychlor
E0032, E0033, E0033RE, E0033DL, E0034, E0036, E0037, E0038, E0038MS,

E0038MSD, E0039, E0040, PBLK16, PLCS16

4,4'-DDD, Endrin ketone
E0033DL

The following Pesticide samples are associated with a continuing calibration whose corresponding initial calibration PEM has percent difference (%D) outside primary criteria (≤30%). No action is taken.

Tetrachloro-m-xylene (TCX), Decachlorobiphenyl (DCB)
E0032, E0033, E0034, E0036, E0037, E0038, E0038MS, E0038MSD, E0039, E0040, PBLK16, PLCS16

The following Pesticide samples are associated with a continuing calibration whose corresponding initial calibration INDA/INDB has percent difference (%D) outside primary criteria (≤20%).

Decachlorobiphenyl (DCB)
E0032, E0033, E0034, E0036, E0037, E0038, E0038MS, E0038MSD, E0039, E0040, PBLK16, PLCS16

The following Aroclors samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ"

Aroclor 1016, Aroclor 1260
E0032, E0033, E0033DL, E0033RE, E0034, E0036, E0037, E0038, E0038MS, E0038MSD, E0039, E0040, ABKL17, ABLK18, ALCS17, ALCS18

Aroclor 1268
E0033DL, E0033RE

The following Aroclor samples are associated with closing continuing calibration with a percent difference (%D) outside primary criteria (≤50%). Hits are qualified "J" and non-detects are flagged "UJ"

Aroclor 1016, Aroclor 1260, Aroclor 1268
E0033DL, E0033RE

The following Aroclor samples are associated with opening continuing calibration with a percent difference (%D) outside primary criteria for surrogate DCB (≤15%). No action is taken.

Decachlorobiphenyl
E0032, E0033, E0034, E0036. E0037, E0038MS. E0038MSD, ABLK17. ABLK18. ALCS17, AQLCS18

The following Aroclor samples are associated with closing continuing calibration with a percent difference (%D) outside primary criteria for both surrogate DCB and TCX (≤50%). No action is taken.

Decachlorobiphenyl, Tetrachloro-m-xylene
E0033DL, E0033RE

4. BLANKS

The following samples contain a concentrations reported below the CRQL and less than to the associated Method Blank CRQL concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not qualified.

4,4'-DDD
E0034, E0036, E0037, E0038, E0038MSD

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The following Pesticide sample has surrogate recovery above the QC limits (30-150%). Hits are qualified "J".

E0033 (154%)

The following diluted Pesticide sample has surrogate recovery below the QC limits (30-150%) and less than 10%. Region 5 protocol is when samples are diluted to 5 or greater the sample results are not qualified.

E0033DL

The following Aroclor sample has surrogate recoveries above the QC criteria (30-150%). Hits are qualified "J".

E0033RE

The following diluted Aroclor sample has surrogate recoveries below the QC criteria (30-150%). Hit and non-detects are not qualified. Region 5's protocol is that when dilution is 5 or greater no action is done for qualification.

E0033DL

The following diluted Aroclor sample has surrogate recoveries below the QC criteria (30-150%) and less than 10%. Hit are qualified "J" and non-detects are qualified "R".

ALCS17

6A. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The following Pesticide sample has a recovery above the QC criteria and greater than 100%. The unspiked sample E0038 reported no detects for Endrin. Non-detect for Endrin in unspiked sample E0038 is qualified "UJ".

E0038MS
Endrin

The following Pesticide samples have recoveries below the QC criteria. The presence of gamma-BHC (Lindane) in the unspiked sample E0038 is qualified "J" and a non-detect is qualified "R".

E0038MS, E0038MSD
Gamma-BHC (Lindane)

6B. LABORATORY CONTROL SAMPLE

The following Pesticide samples have recoveries above the QC criteria. The presence of Endrin, Endosulfan sulfate and gamma-Chlordane in the samples are qualified "J".

E0033, E0038MSD
Endrin, gamma-Chlordane

E0037, E0040
Endrin, Endosulfan sulfate

E0038, E0039
Gamma-Chlordane

E0038MS
Endrin

7. FIELD BLANK AND FIELD DUPLICATE

There are no Field Blanks or Field Duplicates with this data package. Results are not qualified based upon the results of the field duplicates.

8. INTERNAL STANDARDS

Internal Standards are not applicable to this package.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all Pesticide and Aroclor compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following Pesticide samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E0033
Gamma-BHC, alpha-Chlordane

E0034
Endosulfan I, 4,4'-DDE, Endosulfan II, 4,4'-DDT

E0036
4,4'-DDE

E0037
Heptachlor epoxide, Endrin, Endosulfan II, Endosulfan sulfate, Endrin aldehyde

E0038
Dieldrin, 4,4'-DDE, 4,4'-DDT, Endrin ketone, gamma-Chlordane

E0038MS
Endrin ketone

E0038MSD
Endrin ketone, Endrin aldehyde, gamma-Chlordane

E0039
Heptachlor, Endosulfan I, Methoxychlor

E0040
Heptachlor, Endrin, Endosulfan sulfate, 4,4-DDT, Methoxychlor, Endrin aldehyde, gamma-Chlordane

PBLK16
4,4'-DDD

PLCS16
Endosulfan sulfate

The following Pesticide samples have an analytes for which the percent difference between column results exceeds primary criteria of 25%. Positive result is qualified "J".

E0033
Gamma-BHC, Heptachlor epoxide, Endosulfan I, 4,4'-DDE, Endosulfan II, alpha-Chlordane, gamma-Chlordane

E0034
Endosulfan I, Endosulfan II, 4,4'-DDT

E0036
4,4'-DDE

E0037
Heptachlor epoxide, Endrin, Endosulfan II, Endosulfan sulfate, 4,4'-DDT, Endrin aldehyde

E0038
Gamma-Chlordane

E0038MSD
Endrin aldehyde

E0039
Heptachlor

E0040
Endrin, 4,4'-DDD, Endosulfan sulfate, 4,4-DDT, Methoxychlor, Endrin aldehyde, gamma-Chlordane

PLCS16
Endosulfan sulfate, gamma-Chlordane

The following Aroclor sample has analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E0038MS
Aroclor 1260

E0040
Aroclor 1016, Aroclor 1248

The following Aroclor samples have an analytes for which the percent difference between column results exceeds primary criteria of 25%. Positive result is qualified "J".

E0033RE
Aroclor 1016, Aroclor 1232, Aroclor 1248, Aroclor 1254, Aroclor 1268

E0040
Aroclor 1221, Aroclor 1248

11. SYSTEM PERFORMANCE

The GC baseline for the pesticide and Aroclor analysis was acceptable.

12. ADDITIONAL INFORMATION

The Chain of Custody for the Pesticide and Aroclor fractions was not in this package. The laboratory inserted the Volatile and Semivolatile Chain of Custody. This reviewer is using the date of collections of the Volatile and Semivolatile fractions as the date for the Pesticide and Aroclors since the sample numbers are the same.

The following Pesticide samples have analyte detections "false positive" and is flagged by the laboratory as "P". Region 5 protocol is that whenever the "P" value is less than 25% of the CRQL the value is elevated to the CRQL and qualified "U".

E0034
Endrin, Endrin ketone, gamma-Chlordane

E0036
4,4'-DDE, Endrin, Endosulfan II, 4,4'-DDT, Endrin ketone, gamma-Chlordane

E0037
Endosulfan I

E0038
Heptachlor epoxide, Endosulfan I, Endosulfan II

E0038MS
4,4'-DDE, Endosulfan sulfate, Endosulfan II, 4,4'-DDD, gamma-Chlordane

E0038MSD
Endosulfan I, 4,4-DDE, Endosulfan II

E0040
Heptachlor epoxide, Endosulfan I

PBLK16
Gamma-Chlordane

The following Pesticide samples have analyte detections "false positive" and is flagged by the laboratory as "P". Region 5 protocol is that whenever the "P" value is less than 25% of the CRQL the value is elevated to the CRQL and qualified "UJ" because of calibration.

E0033, E0034
Alpha-BHC

E0037, E0038MSD
Methoxychlor

E0038
Heptachlor, Endrin

E0039
Gamma-BHC (Lindane)

The following Pesticide sample has an analyte that exceeded the instruments calibration range. For any analyte that exceeded the calibration range the results from the diluted sample should be considered the final concentration. Hits are flagged estimated "J".

E0033
Heptachlor epoxide, Endrin ketone, gamma-Chlordane

The following Aroclor sample has analyte detections "false positive" and is flagged by the laboratory as "P". Region 5 protocol is that whenever the "P" value is less than 25% of the CRQL the value is elevated to the CRQL and qualified "U".

E0040
Aroclor 1254, Aroclor 1260, Aroclor 1262, Aroclor 1268

The laboratory ran Aroclor analysis for sample E0033 before running the Pesticide analysis. The Aroclor chromatogram for sample E0033 looked out of calibration range (flat top peaks). The laboratory diluted Aroclor sample E0033 (5 fold) and also ran a reanalysis of the sample (E0033RE). The laboratory used the same instrument and column for both analyses. After reviewing the chromatogram and the results for the Pesticide sample E0033 (which reported 9 hits) this reviewer concluded that undiluted sample for Aroclor analysis should be the final result. Enclosed is a hard copies of the

aroclor raw data for E0033, E0033DL and E0033RE and pesticide raw data for E0033.

CADRE did not include the results for Pesticide sample PLCS16 and Aroclor samples ALCS17 and ACLS18 in the electronic spreadsheets. The end user should refer to the hard copy for the results.

On the Pesticide Calibration Verification Summary 7K-Form VII Pest-2 the laboratory reported INDA303 on the same form as INDA304 instead of its companion standard INDB303. From the sequence log the standards were analyzed in the proper order but the presentation of the results on the Form VII does not follow the example in SOW SOM01.1 (5/2005).

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present.)

Analytical Results (Qualified Data)

Case # 35229 SDG : E0033
Site : DUNAVAN OIL
Lab : ENVSYS
Reviewer :
Date

Number of Soil Samples 8
Number of Water Samples 0
Number of Sediment Samples 0

Sample Number :	E0032		E0033		E0033DL		E0034		E0036	
Sampling Location :	X116		X117		X117		X118		S103	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/13/2006		4/6/2006		4/6/2006		4/13/2006		4/13/2006	
Time Sampled :										
%Moisture :	14		39		39		30		49	
pH :	8.6		7.9		7.9		8.3		6.7	
Dilution Factor :	1.0		1.0		25.0		1.0		1.0	
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	2	UJ	2.8	UJ	70	UJ	2.4	UJ	3.3	UJ
beta-BHC	2	UJ	2.8	UJ	70	UJ	2.4	UJ	3.3	UJ
delta-BHC	2	U	2.8	U	70	U	2.4	U	3.3	U
gamma-BHC (Lindane)	2	UJ	1	J	70	UJ	2.4	UJ	3.3	UJ
Heptachlor	2	UJ	2.8	UJ	70	UJ	2.4	UJ	3.3	UJ
Aldrin	2	UJ	2.8	UJ	70	UJ	2.4	UJ	3.3	UJ
Heptachlor epoxide	2	U	2.8	U	70	U	2.4	U	3.3	U
Endosulfan I	2	U	17	J	70	U	0.78	J	3.3	U
Dieldrin	3.8	U	5.4	U	140	U	4.7	U	6.5	U
4,4'-DDE	3.8	U	67	J	140	U	0.67	J	6.5	U
Endrin	3.8	U	5.4	U	140	U	4.7	U	6.5	U
Endosulfan II	3.8	U	57	J	140	U	1.2	J	6.5	U
4,4'-DDD	3.8	U	5.4	U	140	UJ	4.7	U	6.5	U
Endosulfan sulfate	3.8	U	5.4	U	140	U	4.7	U	6.5	U
4,4'-DDT	3.8	U	5.4	U	140	U	1.2	J	6.5	U
Methoxychlor	20	UJ	28	UJ	700	UJ	24	UJ	33	UJ
Endrin ketone	3.8	U	5.4	U	140	UJ	4.7	U	6.5	U
Endrin aldehyde	3.8	U	5.4	U	140	U	4.7	U	6.5	U
alpha-Chlordane	2	U	5.4	U	70	U	2.4	U	3.3	U
gamma-Chlordane	2	U	54	J	70	U	2.4	U	3.3	U
Toxaphene	200	U	280	U	7000	U	240	U	330	U

Analytical Results (Qualified Data)

Case # 35229 SDG E0033
Site : DUNAVAN OIL
Lab. : ENVSYS
Reviewer :
Date .

Sample Number :	E0037		E0038		E0038MS01		E0038MSD01		E0039	
Sampling Location	S104		S105						S109	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/13/2006		4/13/2006		4/13/2006		4/13/2006		4/13/2006	
Time Sampled :										
%Moisture :	17		31		31		31		40	
pH :	7.8		7.5		7.5		7.5		7.4	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	2	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.8	UJ
beta-BHC	2	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.8	UJ
delta-BHC	2	U	2.5	U	2.5	U	2.5	U	2.8	U
gamma-BHC (Lindane)	2	UJ	2.5	R	23	J	22	J	2.8	UJ
Heptachlor	2	UJ	[illegible]	[illegible]	24	J	23	J	0.85	J
Aldrin	2	UJ	2.5	UJ	23	J	23	J	2.8	UJ
Heptachlor epoxide	1.3	J	2.5	U	2.5	U	2.5	U	2.8	U
Endosulfan I	2	U	2.5	U	2.5	U	2.5	U	0.96	J
Dieldrin	4	U	1.8	[illegible]	46	[illegible]	45	[illegible]	5.5	U
4,4'-DDE	4	U	3.8	J	4.8	U	4.8	U	5.5	U
Endrin	1.7	J	4.8	UJ	56	J	54	J	5.5	U
Endosulfan II	1.9	J	4.8	U	4.8	U	4.8	U	5.5	U
4,4'-DDD	4	U	4.8	U	4.8	U	4.8	U	5.5	U
Endosulfan sulfate	1.8	J	4.8	U	4.8	U	4.8	U	5.5	U
4,4'-DDT	4.5	J	[illegible]	[illegible]	48	J	47	J	5.5	U
Methoxychlor	20	UJ	25	UJ	25	UJ	25	UJ	4.5	J
Endrin ketone	4	U	[illegible]	[illegible]	1.6	J	1.6	J	5.5	U
Endrin aldehyde	2.4	J	4.8	U	4.8	U	1.6	J	5.5	U
alpha-Chlordane	2	U	2.5	[illegible]	2.5	U	2.5	U	2.8	U
gamma-Chlordane	2	U	0.66	J	2.5	U	1.7	J	3.6	J
Toxaphene	200	U	250	U	250	U	250	U	280	U

Analytical Results (Qualified Data)

Case # 35229 SDG : E0033
Site : DUNAVAN OIL
Lab. . ENVSYS
Reviewer :
Date :

Sample Number :	E0040		PBLK16							
Sampling Location :	S110									
Matrix :	Soil		Soil							
Units .	ug/Kg		ug/Kg							
Date Sampled :	4/13/2006									
Time Sampled										
%Moisture :	47		0							
pH :	4.2									
Dilution Factor .	1.0		1.0							
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	3.2	UJ	1.7	UJ						
beta-BHC	3.2	UJ	1.7	UJ						
delta-BHC	3.2	U	1.7	U						
gamma-BHC (Lindane)	3.2	UJ	1.7	UJ						
Heptachlor	1.7	J	1.7	U						
Aldrin	3.2	UJ	1.7	UJ						
Heptachlor epoxide	3.2	U	1.7	U						
Endosulfan I	3.2	U	1.7	U						
Dieldrin	6.2	U	3.3	U						
4,4'-DDE	6.2	U	3.3	U						
Endrin	1.6	J	3.3	U						
Endosulfan II	6.2	U	3.3	U						
4,4'-DDD	9.8	J	0.56	J						
Endosulfan sulfate	2.6	J	3.3	U						
4,4'-DDT	4.2	J	3.3	U						
Methoxychlor	11	J	17	UJ						
Endrin ketone	6.2	U	3.3	U						
Endrin aldehyde	4	J	3.3	U						
alpha-Chlordane	3.2	U	1.7	U						
gamma-Chlordane	2.2	J	1.7	U						
Toxaphene	320	U	170	U						

Analytical Results (Qualified Data)

Case #: 35229 SDG : E0033
Site : DUNAVAN OIL
Lab. : ENVSYS
Reviewer
Date :

Number of Soil Samples 8
Number of Water Samples . 0
Number of Sediment Samples : 0

Sample Number :	ABLK17		ABLK18		E0032		E0033		E0033DL	
Sampling Location :					X116		X117		X117	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :					4/13/2006		4/6/2006		4/6/2006	
Time Sampled :										
%Moisture :	0		0		14		39		39	
pH :					8.6		7.9		7.9	
Dilution Factor :	1.0		1.0		1.0		1.0		5.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	33	UJ	33	UJ	38	UJ	54	UJ	270	UJ
Aroclor-1221	33	U	33	U	38	U	54	U	270	U
Aroclor-1232	33	U	33	U	38	U	54	U	270	U
Aroclor-1242	33	U	33	U	38	U	54	U	270	U
Aroclor-1248	33	U	33	U	38	U	54	U	270	U
Aroclor-1254	33	U	33	U	38	U	54	U	270	U
Aroclor-1260	33	UJ	33	UJ	38	UJ	54	UJ	270	UJ
Aroclor-1262	33	U	33	U	38	U	54	U	270	U
Aroclor-1268	33	U	33	U	38	U	54	U	270	UJ

Analytical Results (Qualified Data)

Case # 35229 SDG . E0033
Site : DUNAVAN OIL
Lab. . ENVSYS
Reviewer :
Date

Sample Number :	E0033RE		E0034		E0036		E0037		E0038	
Sampling Location :	X117		X118		S103		S104		S105	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/6/2006		4/13/2006		4/13/2006		4/13/2006		4/13/2006	
Time Sampled :										
%Moisture :	39		30		49		17		31	
pH :	7.9		8 3		6 7		7 8		7.5	
Dilution Factor :	1.0		1.0		1 0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	130	J	47	UJ	65	UJ	40	UJ	48	UJ
Aroclor-1221	220	J	47	U	65	U	40	U	48	U
Aroclor-1232	130	J	47	U	65	U	40	U	48	U
Aroclor-1242	190	J	47	U	65	U	40	U	48	U
Aroclor-1248	320	J	47	U	65	U	40	U	48	U
Aroclor-1254	840	J	47	U	65	U	40	U	48	U
Aroclor-1260	54	UJ	47	U	65	UJ	40	UJ	48	UJ
Aroclor-1262	54	U	47	U	65	U	40	U	48	U
Aroclor-1268	320	J	47	U	65	U	40	U	48	U

Analytical Results (Qualified Data)

Case #. 35229 SDG : E0033
Site : DUNAVAN OIL
Lab : ENVSYS
Reviewer :
Date .

Sample Number	E0038MS		E0038MSD		E0039		E0040			
Sampling Location :	S105		S105		S109		S110			
Matrix	Soil		Soil		Soil		Soil			
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled :	4/13/2006		4/13/2006		4/13/2006		4/13/2006			
Time Sampled :										
%Moisture :	31		31		40		47			
pH :	7.5		7.5		7.4		4.2			
Dilution Factor :	1.0		1.0		1.0		1.0			
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	48	UJ	[illegible]	[illegible]	55	UJ	53	J		
Aroclor-1221	48	U	48	U	55	U	63	J		
Aroclor-1232	48	U	48	U	55	U	62	U		
Aroclor-1242	48	U	48	U	55	U	62	U		
Aroclor-1248	48	U	48	UJ	55	U	21	J		
Aroclor-1254	48	U	48	U	55	U	62	U		
Aroclor-1260	47	J	62	UJ	55	UJ	62	UJ		
Aroclor-1262	48	U	48	U	55	U	62	U		
Aroclor-1268	48	U	48	UJ	55	U	62	U		

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 6/14/06

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: DUNAVAN OIL (IL)

CASE NUMBER: 35299 SDG NUMBER: E0033

Number and Type of Samples: 8 soil samples

Sample Numbers: E0032-34; 36-40

Laboratory: ENVIROSYSTEMS, INC. Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Contract Laboratory Program

Sample Delivery Group (SDG) Cover Sheet

SDG Number E0032 E0033 PL 6/13/06

Laboratory Name **ENVIROSYSTEMS, INC** Laboratory Code **ENVSYS**

Contract No. **EP-W-05-033** Case No. 35229

Analysis Price _____ SDG Turnaround 21 DAYS

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E0032	7) E0039	13)	19)
2) E0033	8) E0040	14)	20)
3) E0034	9)	15) PL 4/18/06	21) PL 4/18/06
4) E0036	10) PL 4/18/06	16)	22)
5) E0037	11)	17)	23)
6) E0038	12)	18)	24)

E0032
First Sample in SDG

E0040
Last Sample in SDG

4/14/06
First Sample Receipt Date

4/14/06
Last Sample Receipt Date

Note: There are a maximum of 20 field samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).

00005

Signature Paul Lerch Date 4/18/06

~~00006~~
PL 6/13/06

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229 PL 6/13/06
DAS No: E0033
SDG No: ~~E0032~~ / E0010

L

Date Shipped:	4/13/2006
Carrier Name:	UPS
Airbill:	1Z6215892210024179
Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Tony Walker	4/13/06 1200	Barbara Crook	4/14/06 10:00
2			
3			
4			

Sampler Signature: Lance Range

For Lab Use Only

Lab Contract No: EPW05033
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0032	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263470, 263471 (2)	X116	S: 4/13/2006	8:30	ME0032	
E0033	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263474, 263475 (2)	X117	S: 4/6/2006	8:45	ME0033	
E0034	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263478, 263479 (2)	X118	S: 4/13/2006	9:00	ME0034	
E0035	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263481 (HCL), 263482 (HCL), 263483 (HCL), 263484 (HCL), 263485 (HCL), 263486, 263487 (12)	G106	S: 4/13/2006	10:00	ME0035	
E0036	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263490, 263491, 263493 (3)	S103	S: 4/13/2006	10:05	ME0036	
E0037	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263494, 263495, 263497 (3)	S104	S: 4/13/2006	11:00	ME0037	
E0038	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263498, 263499, 263601 (3)	S105	S: 4/13/2006	11:00	ME0038	
E0039	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263602, 263603, 263605 (3)	S109	S: 4/13/2006	10:20	ME0039	
E0040	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263606, 263607, 263609 (3)	S110	S: 4/13/2006	10:40	ME0040	

original in E0001 CASE 35229

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC: E0016, E0024, E0038	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3°C	Chain of Custody Seal Number: 82817-82820
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? / Shipment Iced?

CLP ARO = CLP TCL PCB (Aroclors), CLP PEST = CLP TCL Pesticide, CLP SVOA = CLP TCL Semivolatile, CLP SVSIM = CLP TCL Semivolatiles-SIM, CLP TVOA = CLP TCL Trace Volatiles, CLP TVSIM = CLP TCL Trace Volatiles-SIM, VOA = CLP TCL Volatiles

TR Number: 5-314975591-041306-0002

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send C[illegible]p: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Cent[illegible] Chantilly, VA 20151-3819; Phone 703/818-4200; Fax

SDG NARRATIVE

LABORATORY NAME: ENVIROSYSTEMS, INC.

CASE #: 35229 SDG #: E0033 REGION: 5

CONTRACT: EPW05033

DATE SAMPLES RECEIVED AT LABORATORY: 13 APRIL 2006

SAMPLE ANALYSES INCLUDED IN THIS REPORT:

EPA SAMPLE #	LAB ID#	ANALYSIS	MATRIX
E0032	0060419-08	PEST,ARO	SOIL
E0033	0060419-07	PEST,ARO	SOIL
E0034	0060419-10	PEST,ARO	SOIL
E0036	0060419-01	PEST,ARO	SOIL
E0037	0060419-02	PEST,ARO	SOIL
E0038	0060419-03	PEST,ARO	SOIL
E0039	0060419-04	PEST,ARO	SOIL
E0040	0060419-05	PEST,ARO	SOIL

Matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on sample E0038

Samples for this SDG were analyzed by EPA SOW SOM01.1 for multi-media multi-concentration organics.

The cooler temperature was measured to be 2 degrees C.

PESTICIDES SECTION:

The primary analytical column was a Restek RTXCLP, 0.53 mm ID, 0.50 micron film thickness column. Confirmation analysis was performed using a Restek RTXCLP2, 0.53 mm ID, 0.42 micron film thickness GC column.

MS/MSD appears to have been inadvertently not spiked and therefore, no recovery data are available.

Seven of fourteen LCS recoveries were outside QC limits.

Endrin breakdown and combined breakdown were greater than the method specified limit for all PEMs.

All other QC criteria were met for all samples in this SDG.

AROCLOR SECTION:

The primary analytical column was a Restek RTXCLP, 0.53 mm ID, 0.50 micron film thickness column. Confirmation analysis was performed using a Restek RTXCLP2, 0.53 mm ID, 0.42 micron film thickness GC column.

Sample E0033 required dilution runs.

Many samples required reanalysis after an Aroclor 1248 curve was analyzed.

All other QC criteria were met for all samples in this SDG.

I CERTIFY THAT THIS SAMPLE DATA PACKAGE IS IN COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE CONTRACT, BOTH TECHNICALLY AND FOR COMPLETENESS, FOR OTHER THAN THE CONDITIONS DETAILED ABOVE. RELEASE OF THE DATA CONTAINED IN THIS HARDCOPY SAMPLE DATA PACKAGE AND IN THE ELECTRONIC DATA DELIVERABLE HAS BEEN AUTHORIZED BY THE LABORATORY MANAGER OR THE MANAGER'S DESIGNEE, AS VERIFIED BY THE FOLLOWING SIGNATURE:

Mohan Khare

Dr. Mohan Khare
President/CEO

DATE: 6/13/06
13 JUNE 2006

2P - FORM II PEST-2
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0033

GC Column (1): RTXCLP ID: 0.53 (mm) GC Column (2): RTXCLP2 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	E0032	81	76	79	89			0
02	E0033	81	69	118	154 *			1
03	E0033RE D	9 *	9 *	19 *	19 *			4
04	E0034	87	85	93	105			0
05	E0036	85	77	93	105			0
06	E0037	101	86	115	127			0
07	E0038	79	70	82	86			0
08	E0038MS01	76	72	85	97			0
09	E0038MSD01	86	82	100	117			0
10	E0039	76	73	85	99			0
11	E0040	84	70	92	100			0
12	PBLK16	86	83	100	114			0
13	PLCS16	88	90	96	118			0
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

AB 1/30/06

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Value outside of QC limits
D Surrogate diluted out

00009

3H - FORM III PEST-2
SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0033

Matrix Spike - EPA Sample No.: E0038

Instrument ID: HP90D GC Column: RTXCLP ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
gamma-BHC (Lindane)	24	30	23	-29 *	46-127
Heptachlor	24	1.9	24	91	35-130
Aldrin	24	ND	24	99	34-132
Dieldrin	48	1.9	49	98	31-134
Endrin	48	0.99	60	122 *	42-120
4,4'-DDT	48	1.8	49	98	23-134

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
gamma-BHC (Lindane)	24	22	-33 *	13	0-50	46-127
Heptachlor	24	24	91	0	0-31	35-130
Aldrin	24	23	95	4	0-43	34-132
Dieldrin	48	47	93	5	0-38	31-134
Endrin	48	57	116	5	0-45	42-120
4,4'-DDT	48	47	94	4	0-50	23-134

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 3 out of 12 outside limits

COMMENTS: _____

3H - FORM III PEST-2
SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0033

Matrix Spike - EPA Sample No.: E0038

Instrument ID: HP90D GC Column: RTXCLP2 ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
gamma-BHC (Lindane)	24	ND	23	95	46-127
Heptachlor	24	0.56	24	97	35-130
Aldrin	24	ND	23	95	34-132
Dieldrin	48	1.8	46	92	31-134
Endrin	48	ND	56	116	42-120
4,4'-DDT	48	1.5	48	96	23-134

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
gamma-BHC (Lindane)	24	22	91	4	0-50	46-127
Heptachlor	24	23	93	4	0-31	35-130
Aldrin	24	23	95	0	0-43	34-132
Dieldrin	48	45	89	3	0-38	31-134
Endrin	48	54	112	4	0-45	42-120
4,4'-DDT	48	49	98	2	0-50	23-134

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

3M - FORM III PEST-4
SOIL PESTICIDE LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

PLCS16

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0033

Lab Sample ID: 0D61803-BS1 LCS Lot No.: P-2324

Date Extracted: 04/18/2006 Date Analyzed (1): 05/03/2006

Instrument ID (1): HP90D GC Column (1): RTXCLP ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC #	QC LIMITS
gamma-BHC (Lindane)	1.7	1.8	108	50-120
Heptachlor epoxide	1.7	2.2	132	50-150
Dieldrin	3.3	3.5	105	30-130
4,4'-DDE	3.3	4.2	126	50-150
Endrin	3.3	4.4	132 *	50-120
Endosulfan sulfate	3.3	2.7	81	50-120
gamma-Chlordane	1.7	3.6	216 *	30-130

Instrument ID (2): HP90D GC Column (2): RTXCLP2 ID: 0.53 (mm)

Date Analyzed (2): 05/03/2006

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC #	QC LIMITS
gamma-BHC (Lindane)	1.7	1.7	102	50-120
Heptachlor epoxide	1.7	2.0	120	50-150
Dieldrin	3.3	4.2	126	30-130
4,4'-DDE	3.3	4.2	126	50-150
Endrin	3.3	4.9	147 *	50-120
Endosulfan sulfate	3.3	4.6	138 *	50-120
gamma-Chlordane	1.7	2.6	156 *	30-130

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits

LCS Recovery: 5 out of 14 outside limits

COMMENTS:

4E - FORM IV PEST
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK16

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0033

Lab File ID: 0000096R.0036.ZED Lab Sample ID: 0D61803-BLK1

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 04/18/2006

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

Date Analyzed (1): 05/03/2006 Date Analyzed (2): 05/03/2006

Time Analyzed (1): 1325 Time Analyzed (2): 1325

Instrument ID (1): HP90D Instrument ID (2): HP90D

GC Column(1): RTXCLP ID: 0.53 (mm) GC Column(2): RTXCLP2 ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	E0032	0060414-01	05/03/2006	05/03/2006
02	E0033	0060414-02	05/03/2006	05/03/2006
03				
04	E0034	0060414-03	05/03/2006	05/03/2006
05	E0036	0060414-04	05/03/2006	05/03/2006
06	E0037	0060414-05	05/03/2006	05/03/2006
07	E0038	0060414-06	05/03/2006	05/03/2006
08	E0039	0060414-07	05/03/2006	05/03/2006
09	E0040	0060414-08	05/03/2006	05/03/2006
10	PLCS16	0D61803-BS1	05/03/2006	05/03/2006
11	E0038MS01	0D61803-MS1	05/03/2006	05/03/2006
12	E0038MSD01	0D61803-MSD1	05/03/2006	05/03/2006
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCS16(1)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0033

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: OD61803-BS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0000096F.0035.ZED

% Moisture: Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 04/18/2006

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/03/2006

Injection Volume: 0.1 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.8	
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	2.2	
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.5	
72-55-9	4,4'-DDE	4.2	B
72-20-8	Endrin	4.4	
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	2.7	JP
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	3.6	BP
8001-35-2	Toxaphene	170	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
PLCS16(2)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0033

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: OD61803-BS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0000096R.0035.ZED

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

Extraction: (Type) SONC Date Extracted: 04/18/2006

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/03/2006

Injection Volume: 0.1 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
319-84-6	alpha-BHC	0.12 1.7	JB
319-85-7	beta-BHC	0.26 1.7	JB
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	B
76-44-8	Heptachlor	0.27 1.7	JB
309-00-2	Aldrin	0.062 1.7	JB
1024-57-3	Heptachlor epoxide	2.0	B
959-98-8	Endosulfan I	0.34 1.7	JB
60-57-1	Dieldrin	4.2	B
72-55-9	4,4'-DDE	4.2	
72-20-8	Endrin	4.9	B
33213-65-9	Endosulfan II	0.21	J
72-54-8	4,4'-DDD	0.17 4.6	JB U
1031-07-8	Endosulfan sulfate	4.6	P
50-29-3	4,4'-DDT	0.61	JB
72-43-5	Methoxychlor	2.2	JB
53494-70-5	Endrin ketone	1.4	JB
7421-93-4	Endrin aldehyde	4.0	B
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	2.6	BP
8001-35-2	Toxaphene	170	U

RB 2/3/06

2R - FORM II ARO-2
SOIL AROCLOR SURROGATE RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0033

GC Column (1): RTXCLP ID: 0.53 (mm) GC Column (2): RTXCLP2 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	ABLK17	90	89	86	81			0
02	ABLK18	98	97	97	92			0
03	ALCS17	92	0 *	87	84			0
04	ALCS18	95	94	91	97			0
05	E0032	94	96	92	87			0
06	E0033	87	59	92	77			0
07	E0033DL	24 *	33	48	69			1
08	E0033RE	119	152 *	145	206 *			2
09	E0034	97	93	90	88			0
10	E0036	100	99	98	92			0
11	E0037	93	94	92	97			0
12	E0038	94	95	96	93			0
13	E0038MS	88	90	85	79			0
14	E0038MSD	99	99	96	90			0
15	E0039	93	94	90	83			0
16	E0040	100	95	88	83			0
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Value outside of QC limits
D Surrogate diluted out

RB 7/3/06

00297

SOM01.1 (5/2005)

3K - FORM III ARO-2
SOIL AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0033

Matrix Spike - EPA Sample No.: E0038

Instrument ID: HP90D GC Column: RTXCLP ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
AR1016	48	ND	59	122	29-135
AR1260	48	ND	48	99	29-135

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
AR1016	48	61	126	3	0-15	29-135
AR1260	48	55	114	14	0-20	29-135

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

3K - FORM III ARO-2
SOIL AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0033

Matrix Spike - EPA Sample No.: E0038

Instrument ID: HP90D GC Column: RTXCLP2 ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
AR1016	48	ND	48	99	29-135
AR1260	48	ND	47	97	29-135

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
AR1016	48	55	114	14	0-15	29-135
AR1260	48	52	108	11	0-20	29-135

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

3P - FORM III ARO-4
SOIL AROCLOR LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

ALCS17

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0033

Lab Sample ID: 0D61903-BS1 LCS Lot No.: P-2464

Date Extracted: 04/19/2006 Date Analyzed (1): 04/28/2006

Instrument ID (1): HP90D GC Column (1): RTXCLP ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC #	QC LIMITS
AR1016	33	37	111	50-150
AR1260	33	33	99	50-150

Instrument ID (2): HP90D GC Column (2): RTXCLP2 ID: 0.53 (mm)

Date Analyzed (2): 04/28/2006

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC #	QC LIMITS
AR1016	33	35	105	50-150
AR1260	33	41	123	50-150

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits

LCS Recovery: 0 out of 4 outside limits

COMMENTS:

3P - FORM III ARC-4
SOIL AROCLOR LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

ALCS18

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0033

Lab Sample ID: CD61903-BS2 LCS Lot No.: P-2464

Date Extracted: 04/19/2006 Date Analyzed (1): 04/28/2006

Instrument ID (1): HP90D GC Column (1): RTXCLP ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC #	QC LIMITS
AR1016	33	40	120	50-150
AR1260	33	37	111	50-150

Instrument ID (2): HP90D GC Column (2): RTXCLP2 ID: 0.53 (mm)

Date Analyzed (2): 04/28/2006

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC #	QC LIMITS
AR1016	33	36	108	50-150
AR1260	33	40	120	50-150

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits

LCS Recovery: 0 out of 4 outside limits

COMMENTS:

4F - FORM IV ARO
AROCLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.

ABLK17

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0033

Lab File ID: 0000089F.0073.ZED Lab Sample ID: 0D61903-BLK1

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 04/19/2006

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

Acid Cleanup: (Y/N) N

Date Analyzed (1): 04/28/2006 Date Analyzed (2): 04/28/2006

Time Analyzed (1): 1404 Time Analyzed (2): 1404

Instrument ID (1): HP9OD Instrument ID (2): HP90D

GC Column(1): RTXCLP ID: 0.53 (mm) GC Column(2): RTXCLP2 ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	E0032	0060414-01	04/28/2006	04/28/2006
02	E0033	0060414-02	04/28/2006	04/28/2006
03	E0033DL	0060414-02RE1	05/05/2006	05/05/2006
04	E0033RE	0060414-02RE2	05/05/2006	05/05/2006
05	E0034	0060414-03	04/28/2006	04/28/2006
06	E0036	0060414-04	04/28/2006	04/28/2006
07	E0037	0060414-05	04/28/2006	04/28/2006
08	E0038	0060414-06	04/28/2006	04/28/2006
09	E0039	0060414-07	04/28/2006	04/28/2006
10	E0040	0060414-08	04/29/2006	04/29/2006
11	ALCS17	0D61903-BS1	04/28/2006	04/28/2006
12	ALCS18	0D61903-BS2	04/28/2006	04/28/2006
13	E0038MS	0D61903-MS1	04/28/2006	04/28/2006
14	E0038MSD	0D61903-MSD1	04/28/2006	04/28/2006
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

4F - FORM IV ARO
AROCLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.

ABLK18

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0033

Lab File ID: 0000089F.0074.ZED Lab Sample ID: 0D61903-BLK2

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 04/19/2006

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

Acid Cleanup: (Y/N) N

Date Analyzed (1): 04/28/2006 Date Analyzed (2): 04/28/2006

Time Analyzed (1): 1443 Time Analyzed (2): 1443

Instrument ID (1): HP90D Instrument ID (2): HP90D

GC Column(1): RTXCLP ID: 0.53 (mm) GC Column(2): RTXCLP2 ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	E0032	0060414-01	04/28/2006	04/28/2006
02	E0033	0060414-02	04/28/2006	04/28/2006
03	E0033DL	0060414-02RE1	05/05/2006	05/05/2006
04	E0033RE	0060414-02RE2	05/05/2006	05/05/2006
05	E0034	0060414-03	04/28/2006	04/28/2006
06	E0036	0060414-04	04/28/2006	04/28/2006
07	E0037	0060414-05	04/28/2006	04/28/2006
08	E0038	0060414-06	04/28/2006	04/28/2006
09	E0039	0060414-07	04/28/2006	04/28/2006
10	E0040	0060414-08	04/29/2006	04/29/2006
11	ALCS17	0D61903-BS1	04/28/2006	04/28/2006
12	ALCS18	0D61903-BS2	04/28/2006	04/28/2006
13	E0038MS	0D61903-MS1	04/28/2006	04/28/2006
14	E0038MSD	0D61903-MSD1	04/28/2006	04/28/2006
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
ALCS17(1)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0033

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D61903-BS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0000089F.0075.ZED

% Moisture: Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 04/19/2006

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/28/2006

Injection Volume: 0.1 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

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

ACID Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
12674-11-2	AR1016	37	
11104-28-2	AR1221	33	U
11141-16-5	AR1232	33	U
53469-21-9	AR1242	33	U
12672-29-6	AR1248	33	U
11097-69-1	AR1254	33	U
11096-82-5	AR1260	33	
37324-23-5	AR1262	33	U
11100-14-4	AR1268	33	U

1H - FORM I ARC
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCS17(2)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0033

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D61903-BS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0000089R.C075.ZED

% Moisture: Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 04/19/2006

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/28/2006

Injection Volume: 0.1 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

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

ACID Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
12674-11-2	AR1016	35	
11104-28-2	AR1221	33	U
11141-16-5	AR1232	33	U
53469-21-9	AR1242	33	U
12672-29-6	AR1248	33	U
11097-69-1	AR1254	33	U
11096-82-5	AR1260	41	
37324-23-5	AR1262	33	U
11100-14-4	AR1268	33	U

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCS18(1)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0033

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D61903-BS2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0000059F.0076.ZED

% Moisture: Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 04/19/2006

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/28/2006

Injection Volume: 0.1 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

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

ACID Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
12674-11-2	AR1016	40	
11104-28-2	AR1221	33	U
11141-16-5	AR1232	33	U
53469-21-9	AR1242	33	U
12672-29-6	AR1248	33	U
11097-69-1	AR1254	33	U
11096-82-5	AR1260	37	
37324-23-5	AR1262	33	U
11100-14-4	AR1268	33	U

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCS18(2)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0033

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D61903-BS2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0000089R.0076.ZED

% Moisture: Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 04/19/2006

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/28/2006

Injection Volume: 0.1 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

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

ACID Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
12674-11-2	AR1016	36	
11104-28-2	AR1221	33	U
11141-16-5	AR1232	33	U
53469-21-9	AR1242	33	U
12672-29-6	AR1248	33	U
11097-69-1	AR1254	33	U
11096-82-5	AR1260	40	
37324-23-5	AR1262	33	U
11100-14-4	AR1268	33	U

7K - FORM VII PEST-2
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0033

GC Column: RTXCLP ID: 0.53 (mm) Init. Calib. Date(s): 05/01/2006 05/02/2006

EPA Sample No. (PIBLK##): PIBLK07 Date Analyzed: 05/08/2006

Lab Sample ID (PIBLK): 0000096-CCB7 Time Analyzed: 1822

EPA Sample No. (INDA3##): INDA303 Date Analyzed: 05/03/2006

Lab Sample ID (INDA3): 000096-CVA2(1) Time Analyzed: 2114

Individual Mix A Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
alpha-BHC	07.87	07.83	07.93	66279900	68660000	3.6
gamma-BHC (Lindane)	08.59	08.54	08.64	64939900	68842500	6.0
Heptachlor	09.61	09.57	09.67	55298300	56416500	2.0
Endosulfan I	12.32	12.25	12.39	50238800	54210000	7.9
Dieldrin	12.80	12.73	12.87	51318000	52364300	2.0
Endrin	13.26	13.19	13.33	40177100	37702300	-6.2
4,4'-DDD	13.40	13.34	13.48	38890200	42799500	10.1
4,4'-DDT	13.94	13.88	14.02	42656500	39549500	-7.3
Methoxychlor	14.89	14.82	14.96	24195800	23114400	-4.5
TCX	06.59	06.55	06.65	54486300	59108500	8.5
DCB	17.83	17.74	17.94	38606200	46735800	21.1

EPA Sample No. (INDA3##): INDA304 Date Analyzed: 05/08/2006

Lab Sample ID (INDA3): 000096-CVA3(1) Time Analyzed: 1902

Individual Mix A Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
alpha-BHC	07.87	07.83	07.93	66279900	70397500	6.2
gamma-BHC (Lindane)	08.58	08.54	08.64	64939900	68269000	5.1
Heptachlor	09.61	09.57	09.67	55298300	53735500	-2.8
Endosulfan I	12.31	12.25	12.39	50238800	51581000	2.7
Dieldrin	12.79	12.73	12.87	51318000	51302800	0.0
Endrin	13.25	13.19	13.33	40177100	35061800	-12.7
4,4'-DDD	13.40	13.34	13.48	38890200	40814300	5.0
4,4'-DDT	13.94	13.88	14.02	42656500	39222300	-8.1
Methoxychlor	14.89	14.82	14.96	24195800	20602100	-14.9
TCX	06.59	06.55	06.65	54486300	56545000	3.8
DCB	17.83	17.74	17.94	38606200	38853500	0.6

7K - FORM VII PEST-2
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0033

GC Column: RTXCLP ID: 0.53 (mm) Init. Calib. Date(s): 05/01/2006 05/02/2006

EPA Sample No. (PIBLK##): PIBLK07 Date Analyzed: 05/08/2006

Lab Sample ID (PIBLK): 0000096-CCB7 Time Analyzed: 1822

EPA Sample No. (INDB3##): INDB303 Date Analyzed: 05/03/2006

Lab Sample ID (INDB3): 000096-CVB2(1) Time Analyzed: 2153

Individual Mix B Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
beta-BHC	08.80	08.75	08.85	35239000	37939500	7.7
delta-BHC	09.18	09.13	09.23	57321800	59976000	4.6
Aldrin	10.25	10.20	10.30	47945800	56452000	17.7
Heptachlor epoxide	11.52	11.46	11.60	51670400	56578000	9.5
4,4'-DDE	12.22	12.15	12.29	42546800	47402000	11.4
Endosulfan II	13.71	13.64	13.78	46270000	49879000	7.8
Endosulfan sulfate	15.39	15.32	15.46	38847800	43638800	12.3
Endrin ketone	15.93	15.87	16.01	49719100	55192300	11.0
Endrin aldehyde	14.53	14.47	14.61	35149300	38275800	8.9
alpha-Chlordane	12.04	11.98	12.12	50326900	55827000	10.9
gamma-Chlordane	11.77	11.71	11.85	51486400	54939000	6.7
TCX	06.59	06.50	06.70	53863100	59279000	10.1
DCB	17.84	17.74	17.94	38024500	46433800	22.1

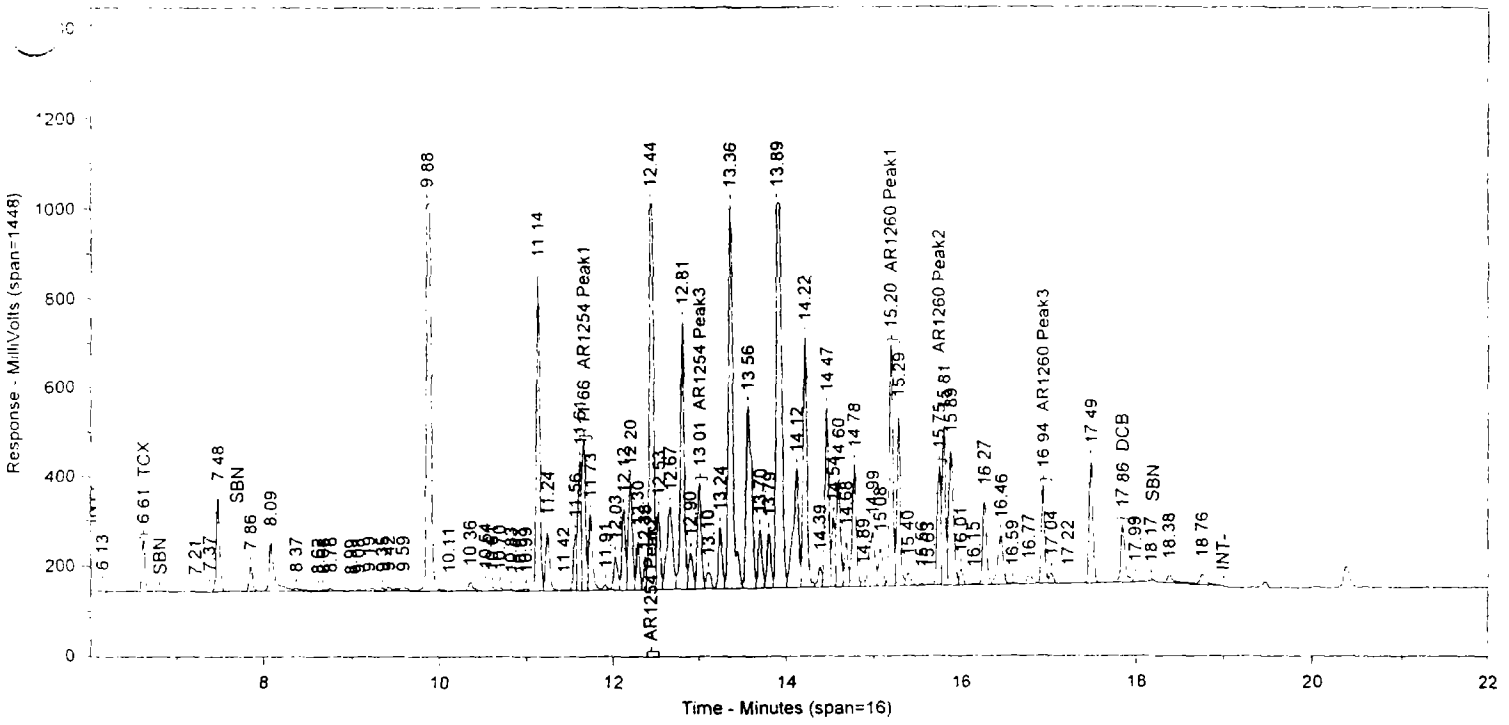
EPA Sample No. (INDB3##): INDB304 Date Analyzed: 05/08/2006

Lab Sample ID (INDB3): 000096-CVB3(1) Time Analyzed: 1941

Individual Mix B Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
beta-BHC	08.79	08.75	08.85	35239000	37335500	6.0
delta-BHC	09.17	09.13	09.23	57321800	56560000	-1.3
Aldrin	10.24	10.20	10.30	47945800	51794000	8.0
Heptachlor epoxide	11.52	11.46	11.60	51670400	55523500	7.5
4,4'-DDE	12.22	12.15	12.29	42546800	45338500	6.6
Endosulfan II	13.70	13.64	13.78	46270000	48683300	5.2
Endosulfan sulfate	15.38	15.32	15.46	38847800	42671000	9.8
Endrin ketone	15.93	15.87	16.01	49719100	53973800	8.6
Endrin aldehyde	14.53	14.47	14.61	35149300	38121500	8.5
alpha-Chlordane	12.04	11.98	12.12	50326900	54600500	8.5
gamma-Chlordane	11.77	11.71	11.85	51486400	52402000	1.8
TCX	06.59	06.50	06.70	53863100	58348500	8.3
DCB	17.83	17.74	17.94	38024500	43627800	14.7

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

E:\data\HP90D1\0000089F.0080.BND * 0060414-02 E0033
E:\data\HP90D1\0000089F.0080.RAW 0060414-02 E0033



Sample Name = 0060414-02 E0033
Date Taken (start) = 4/28/06 18:42:18
Raw File Name = E:\data\HP90D1\0000089F.0080.RAW
Method File Name = E:\MET\D4.2DUALCOL1.MET
Calibration File Name = E:\CAL\DAROGM.cal

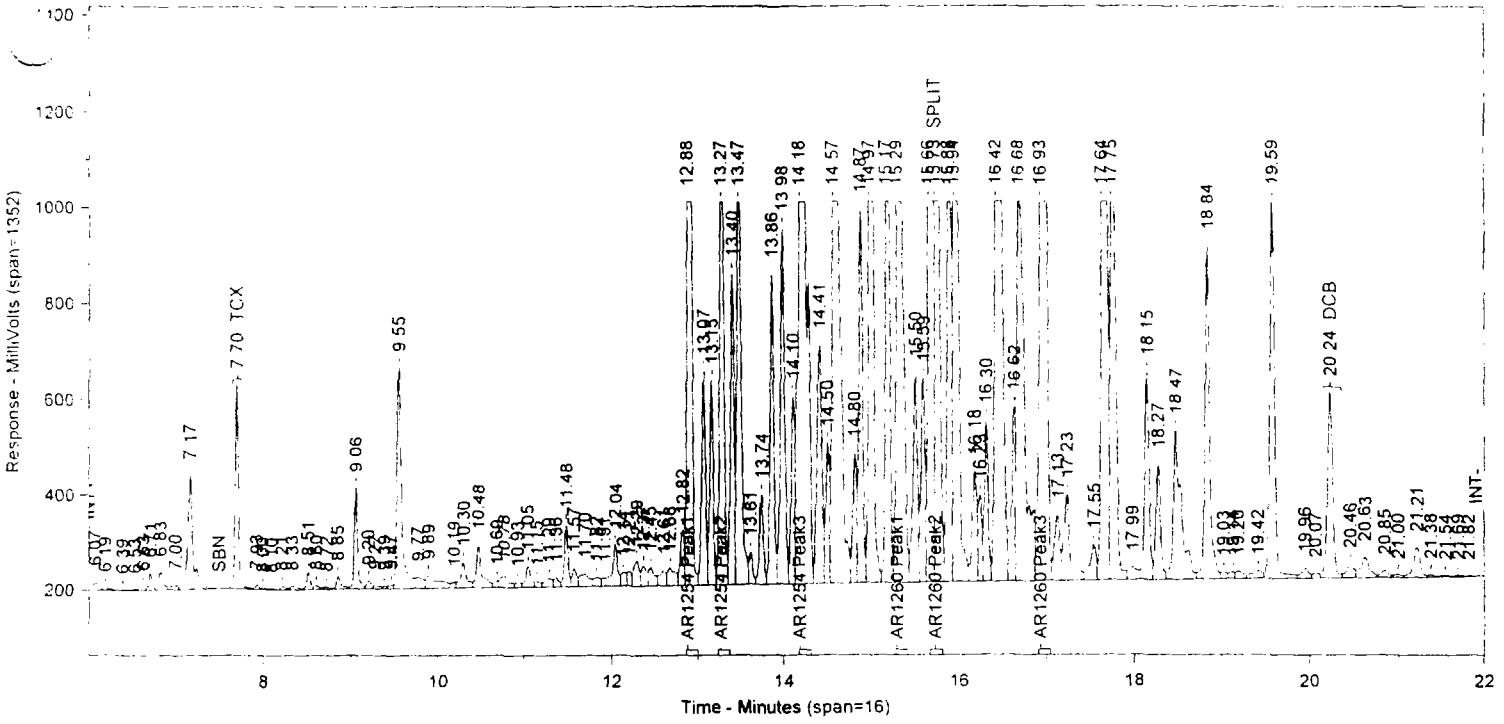
Instrument : HP90D1
Column: RTXCLP id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

Ret Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
6.13	42074		0.000
6.61	290236	TCX	57.152
7.21	7305		0.000
7.37	29694		0.000
7.48	603056		0.000
7.86	156407		0.000
8.09	472301		0.000
8.37	46190		0.000
8.62	13855		0.000
8.68	11752		0.000
8.76	29684		0.000
8.99	6900		0.000
9.08	11096		0.000
9.19	38863		0.000
9.35	22638		0.000
9.42	46132		0.000
9.59	47929		0.000
9.88	3181976		0.000
10.11	17983		0.000
10.36	76837		0.000
10.54	48447		0.000
10.61	26670		0.000
10.70	27344		0.000
10.83	11036		0.000
10.93	9509		0.000
10.99	19896		0.000
11.14	2033740		0.000
11.24	414117		0.000

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
11.42	8988		0.000
11.56	303308		0.000
11.61	768554		0.000
11.66	929773	AR1254 Peak1	1977.200
11.73	522866		0.000
11.91	37046		0.000
12.03	236737		0.000
12.12	536561		0.000
12.20	802094		0.000
12.30	299426		0.000
12.38	122314		0.000
12.44	2933549	AR1254 Peak2	5920.022
12.53	478183		0.000
12.67	851395		0.000
12.81	1786646		0.000
12.90	274887		0.000
13.01	743724	AR1254 Peak3	1928.783
13.10	142745		0.000
13.24	391135		0.000
13.36	3230632		0.000
13.56	1891275		0.000
13.70	374841		0.000
13.79	368772		0.000
13.89	3998648		0.000
14.12	1161462		0.000
14.22	1781190		0.000
14.39	141382		0.000
14.47	1185961		0.000
14.54	411997		0.000
14.60	737201		0.000
14.68	295859		0.000
14.78	885190		0.000
14.89	39037		0.000
14.99	565230		0.000
15.08	259704		0.000
15.20	1588658	AR1260 Peak1	3487.367
15.29	1084499		0.000
15.40	103922		0.000
15.56	12293		0.000
15.63	6234		0.000
15.75	808451	AR1260 Peak2	2705.139
15.81	1060732		0.000
15.89	1068155		0.000
16.01	108008		0.000
16.15	10252		0.000
16.27	582981		0.000
16.46	473121		0.000
16.59	13135		0.000
16.77	84971		0.000
16.94	661603	AR1260 Peak3	6562.917
17.04	76836		0.000
17.22	9873		0.000
17.49	821292		0.000
17.86	441066	DCB	126.495
17.99	30168		0.000
18.17	11942		0.000
18.38	110828		0.000
18.76	128339		0.000

E:\data\HP90D1\0000089R.0080.BND *
E:\data\HP90D1\0000089R.0080.RAW

0060414-02 E0033
0060414-02 E0033



Sample Name = 0060414-02 E0033
Date Taken (start) = 4/28/06 18:42:18
Raw File Name = E:\data\HP90D1\0000089R.0080.BND
Method File Name = E:\data\HP90D1\0000089R.0080.BND
Calibration File Name = E:\CAL\DAROGMB.cal

Instrument : HP90D2
Column: RTXCLP2 id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
6.07	65007		0.000
6.19	23828		0.000
6.39	13166		0.000
6.53	10697		0.000
6.63	34415		0.000
6.71	99521		0.000
6.83	151968		0.000
7.00	48246		0.000
7.17	1005927		0.000
7.70	1123927	TCX	55.446
7.93	27205		0.000
8.00	13788		0.000
8.10	12400		0.000
8.21	29577		0.000
8.33	39986		0.000
8.51	108810		0.000
8.60	28120		0.000
8.72	27117		0.000
8.85	107575		0.000
9.06	612421		0.000
9.20	56260		0.000
9.27	37409		0.000
9.39	15264		0.000
9.47	29182		0.000
9.55	1729818		0.000
9.77	139278		0.000
9.89	273300		0.000
10.19	49085		0.000

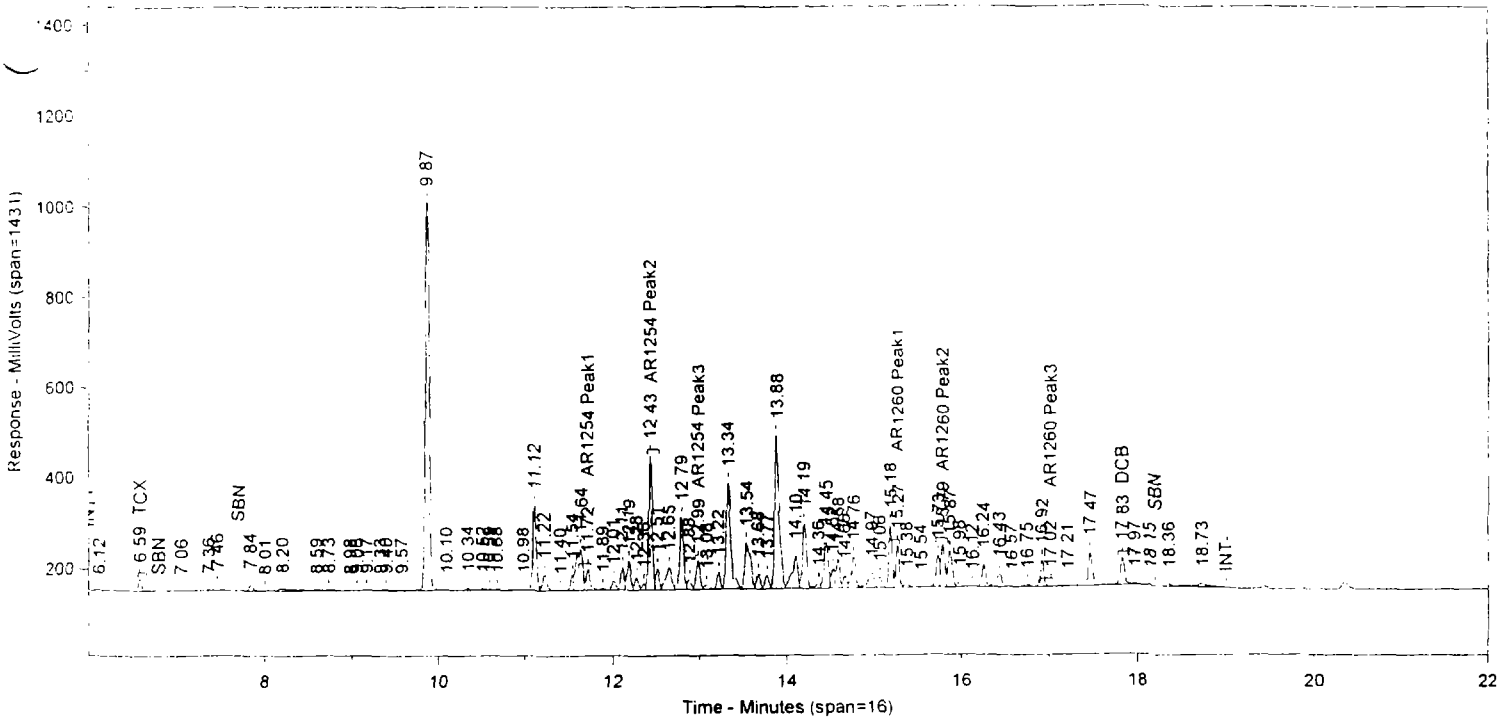
Ret Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
10 30	257121		0.000
10 48	418294		0.000
10 69	46921		0.000
10 78	175321		0.000
10 93	47229		0.000
11 05	190208		0.000
11 15	53084		0.000
11 29	100199		0.000
11 36	70653		0.000
11 48	418291		0.000
11 57	146386		0.000
11 70	192119		0.000
11 82	97447		0.000
11 91	54462		0.000
12.04	390741		0.000
12.14	119957		0.000
12 21	98506		0.000
12.29	255756		0.000
12 37	175949		0.000
12 45	179462		0.000
12.61	171678		0.000
12 68	235476		0.000
12.82	360948		0.000
12 88	3856659	AR1254 Peak1	3296.959
13 07	1336697		0.000
13.15	1261337		0.000
13.27	3182738	AR1254 Peak2	2559.649
13.40	1871684		0.000
13.47	3021987		0.000
13.61	210771		0.000
13.74	600427		0.000
13 86	1988268		0.000
13.98	2602183		0.000
14.10	1123953		0.000
14.18	6973561	AR1254 Peak3	3644.777
14.41	2023443		0.000
14.50	863841		0.000
14.57	5917223		0.000
14.80	799490		0.000
14.87	2371525		0.000
14.97	3938602		0.000
15 17	3100925		0.000
15 29	5240378	AR1260 Peak1	4255.096
15 50	1597441		0.000
15 59	1345775		0.000
15 66	4217055		0.000
15.73	3425383	AR1260 Peak2	2002.443
15 88	3056063		0.000
15 94	4593814		0.000
16 18	777112		0.000
16.23	492217		0.000
16.30	1065395		0.000
16.42	5753310		0.000
16 62	1186592		0.000
16 68	5510652		0.000
16.93	5752421	AR1260 Peak3	3442.205
17 13	596026		0.000
17.23	901457		0.000
17 55	392205		0.000
17 64	4513521		0.000
17 75	3842876		0.000
17 99	192387		0.000
18.15	1486309		0.000
18 27	896668		0.000
18.47	2059176		0.000
18 84	2766590		0.000
19 03	64171		0.000
19 14	58760		0.000

Ret Time (min)	Peak Area	Peak Name	Amount Fnd. ug/L
19.20	100302		0.000
19.42	135432		0.000
19.59	3022358		0.000
19.96	125502		0.000
20.07	55581		0.000
20.24	1653687	DCB	132.841
20.46	162662		0.000
20.63	304853		0.000
20.85	91953		0.000
21.00	33290		0.000
21.21	342244		0.000
21.38	24151		0.000
21.54	20706		0.000
21.69	24268		0.000
21.82	8816		0.000

00314

E:\data\HP90D1\0000089F.0098.BND *
E:\data\HP90D1\0000089F.0098.RAW

0060414-02RE1 E0033DL(5X)
0060414-02RE1 E0033DL(5X)



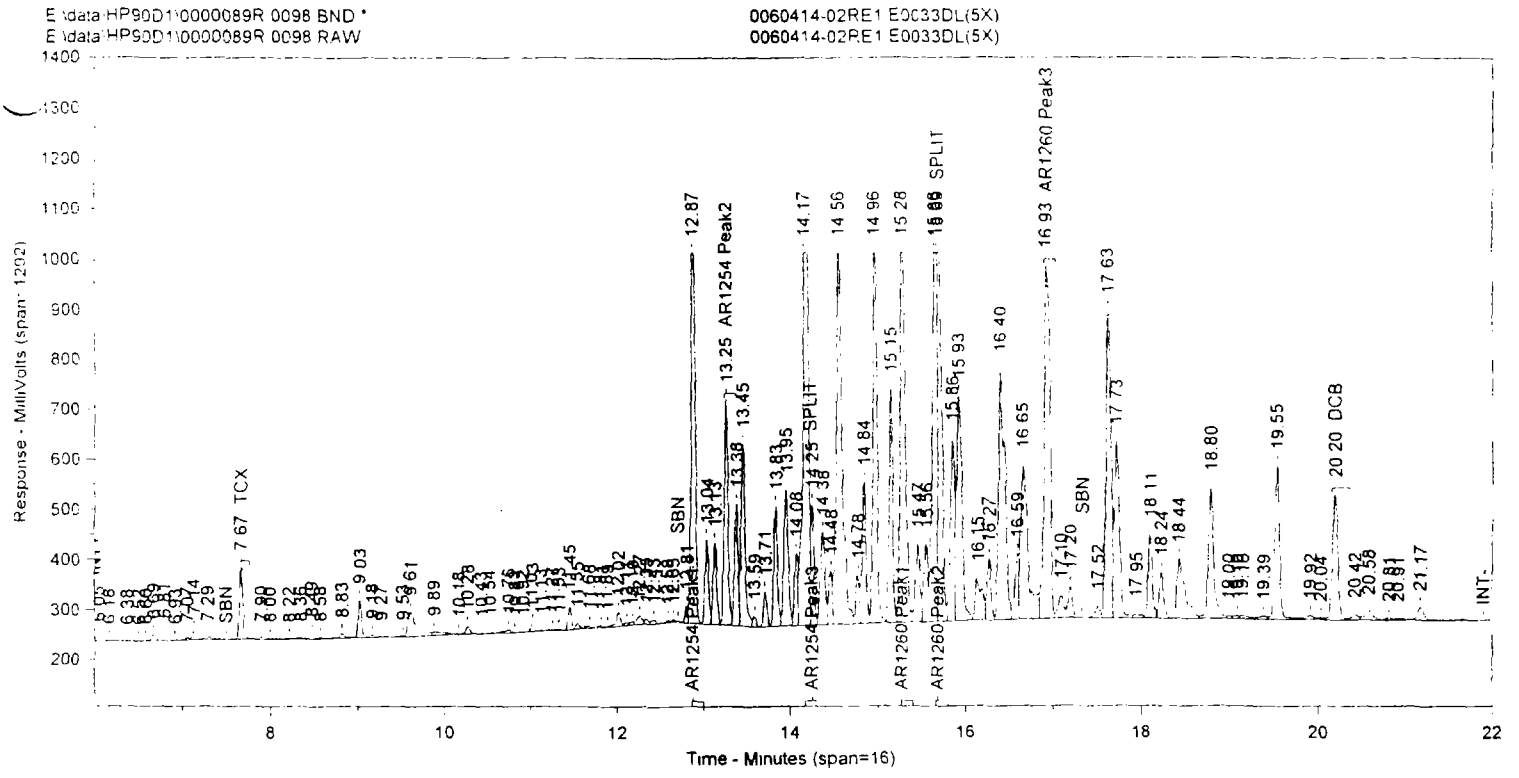
Sample Name = 0060414-02RE1 E0033DL(5X)
Date Taken (start) = 5/5/06 17:38:46
Raw File Name = E:\data\HP90D1\0000089F.0098.RAW
Method File Name = E:\MET\D4.2DUALCOL1.MET
Calibration File Name = E:\data\HP90D1\0000089F.0098.BND

Instrument : HP90D1
Column: RTXCLP id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
6.12	2383		0.000
6.59	74139	TCX	14.599
7.06	5964		0.000
7.36	8794		0.000
7.46	35198		0.000
7.84	39914		0.000
8.01	2546		0.000
8.20	53791		0.000
8.59	11848		0.000
8.73	13248		0.000
8.98	4233		0.000
9.06	5093		0.000
9.17	15146		0.000
9.33	8045		0.000
9.40	11123		0.000
9.57	21429		0.000
9.87	2631156		0.000
10.10	6144		0.000
10.34	16294		0.000
10.52	11388		0.000
10.59	5929		0.000
10.68	5771		0.000
10.98	7487		0.000
11.12	540854		0.000
11.22	112421		0.000
11.40	2675		0.000
11.54	78790		0.000
11.64	461531		0.000

Ret Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
11.72	145910	AR1254 Peak1	310.283
11.89	10324		0.000
12.01	59134		0.000
12.11	137501		0.000
12.19	214802		0.000
12.28	79635		0.000
12.36	33154		0.000
12.43	836939	AR1254 Peak2	1688.978
12.51	131118		0.000
12.65	228610		0.000
12.79	485187		0.000
12.88	71117		0.000
12.99	197898	AR1254 Peak3	513.230
13.08	37648		0.000
13.22	105762		0.000
13.34	870788		0.000
13.54	480434		0.000
13.68	99518		0.000
13.77	92425		0.000
13.88	1217566		0.000
14.10	312804		0.000
14.19	467936		0.000
14.36	37267		0.000
14.45	305583		0.000
14.52	119745		0.000
14.58	195055		0.000
14.66	78452		0.000
14.76	227206		0.000
14.97	157082		0.000
15.06	70348		0.000
15.18	406619		0.000
15.27	268878	AR1260 Peak1	590.233
15.38	28405		0.000
15.54	2547		0.000
15.73	208775		0.000
15.79	279142	AR1260 Peak2	934.030
15.87	278396		0.000
15.98	28381		0.000
16.12	2630		0.000
16.24	151236		0.000
16.43	123612		0.000
16.57	3965		0.000
16.75	21364		0.000
16.92	173578		0.000
17.02	20433	AR1260 Peak3	202.690
17.21	3639		0.000
17.47	224539		0.000
17.83	200004	DCB	57.360
17.97	11970		0.000
18.15	6450		0.000
18.36	25719		0.000
18.73	58680		0.000

00317



Sample Name = 0060414-02RE1 E0033DL(5X)
Date Taken (start) = 5/5/06 17:38:46
Raw File Name = E:\data\HP90D1\0000089R.0098.BND
Method File Name = E:\data\HP90D1\0000089R.0098.BND
Calibration File Name = E:\CAL\DAROGMB.cal

Instrument : HP90D2
Column: RTXCLP2 id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

Ret. Time (min)	Peak Area	Peak Name	Amount Fnd. ug/L
6.05	20117		0.000
6.18	9254		0.000
6.38	6164		0.000
6.52	4794		0.000
6.60	9405		0.000
6.69	33920		0.000
6.81	50412		0.000
6.93	4929		0.000
7.07	14798		0.000
7.14	62581		0.000
7.29	30249		0.000
7.67	401033	TCX	19.784
7.90	16418		0.000
8.00	17823		0.000
8.22	11076		0.000
8.36	16908		0.000
8.49	39974		0.000
8.58	19251		0.000
8.83	36607		0.000
9.03	215347		0.000
9.18	14832		0.000
9.27	7203		0.000
9.53	4412		0.000
9.61	363471		0.000
9.89	65115		0.000
10.18	8062		0.000
10.28	59853		0.000
10.43	6527		0.000

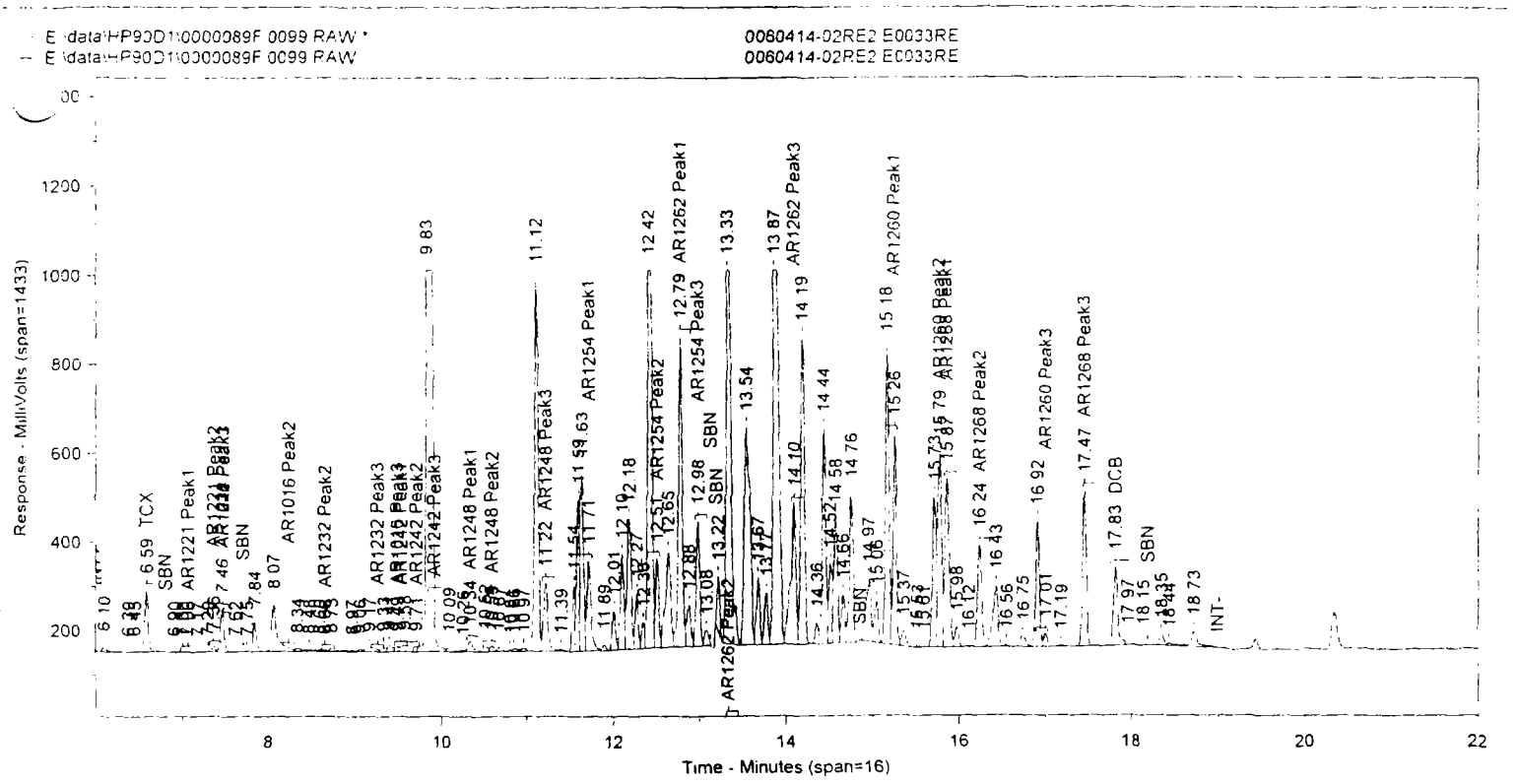
00318

Ret Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
10.54	14221		0.000
10.75	37908		0.000
10.83	2832		0.000
10.92	4131		0.000
11.03	46540		0.000
11.13	4693		0.000
11.27	12399		0.000
11.33	8525		0.000
11.45	133707		0.000
11.55	36047		0.000
11.68	29522		0.000
11.81	15092		0.000
11.89	5486		0.000
12.02	102473		0.000
12.11	21580		0.000
12.19	24169		0.000
12.27	73610		0.000
12.35	31504		0.000
12.43	26463		0.000
12.58	12782		0.000
12.65	10220		0.000
12.81	78764		0.000
12.87	2543746	AR1254 Peak1	2174.583
13.04	485750		0.000
13.13	457625		0.000
13.25	1427301	AR1254 Peak2	1147.877
13.38	698320		0.000
13.45	1180878		0.000
13.59	62071		0.000
13.71	200780		0.000
13.83	729818		0.000
13.95	947877		0.000
14.08	392738		0.000
14.17	3601410		0.000
14.25	597643	AR1254 Peak3	312.362
14.38	756307		0.000
14.48	299476		0.000
14.56	3298264		0.000
14.78	276393		0.000
14.84	862383		0.000
14.96	2484075		0.000
15.15	1346162		0.000
15.28	3120025	AR1260 Peak1	2533.406
15.47	554683		0.000
15.56	481425		0.000
15.66	2950063		0.000
15.69	2407582	AR1260 Peak2	1407.447
15.86	1203023		0.000
15.93	1960956		0.000
16.15	428855		0.000
16.27	369000		0.000
16.40	2598970		0.000
16.59	396072		0.000
16.65	2004816		0.000
16.93	3531019	AR1260 Peak3	2112.935
17.10	179619		0.000
17.20	240896		0.000
17.52	95149		0.000
17.63	2447191		0.000
17.73	1459343		0.000
17.95	45930		0.000
18.11	566607		0.000
18.24	326123		0.000
18.44	778136		0.000
18.80	1055088		0.000
19.00	19066		0.000
19.10	22935		0.000
19.16	41616		0.000

00319

Ret. Time (min)	Peak Area	Peak Name	Amount Fnd. ug/L
19.39	45283		0.000
19.55	1193790		0.000
19.92	40990		0.000
20.04	14412		0.000
20.20	1036327	DCB	83.248
20.42	56201		0.000
20.58	114109		0.000
20.81	25278		0.000
20.91	26127		0.000
21.17	162396		0.000

00320



Sample Name = 0060414-02RE2 E0033RE
Date Taken (start) = 5/5/06 18:17:55
Raw File Name = E:\data\HP90D1\0000089F.0099.RAW
thod File Name = E:\MET\D4.2DUALCOL1.MET
Calibration File Name = E:\CAL\DAROGM.cal

Instrument: HP90D1
Column: RTXCLP id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

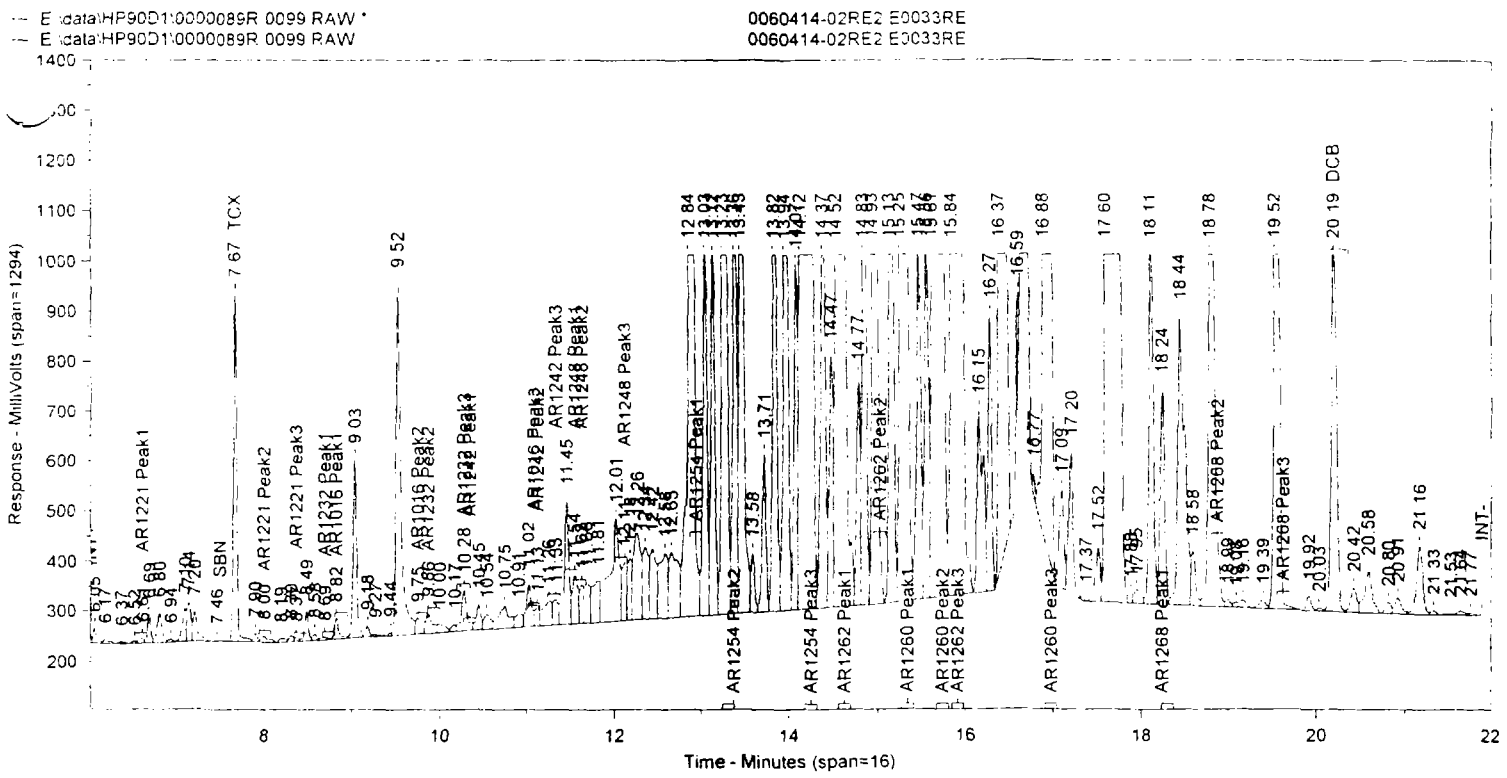
Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
6.10	47329		0.000
6.39	2496		0.000
6.45	3145		0.000
6.59	362271	TCX	71.337
6.90	7505		0.000
7.00	4017		0.000
7.06	7424	AR1221 Peak1	91.061
7.17	7443		0.000
7.29	5806		0.000
7.36	36844	AR1221 Peak2	714.830
7.46	297443	AR1016 Peak1	2384.449
7.62	4721		0.000
7.75	2961		0.000
7.84	192496		0.000
8.07	510168		0.000
8.34	42570		0.000
8.48	18123		0.000
8.60	19451		0.000
8.66	11996	AR1232 Peak2	243.139
8.73	35208		0.000
8.97	12947		0.000
9.06	19592		0.000
9.17	69528		0.000
9.33	40789		0.000
9.41	58683		0.000
9.49	28102	AR1016 Peak3	140.468
9.58	106917		0.000
9.71	33640	AR1242 Peak2	352.187

Ret Time (min)	Peak Area	Peak Name	Amount Fnd. ug/L
9.83	4884381		0.000
10.09	31719		0.000
10.26	12654		0.000
10.34	89383	AR1248 Peak1	322.847
10.52	60332		0.000
10.59	38529	AR1248 Peak2	287.924
10.67	33999		0.000
10.81	13825		0.000
10.86	26250		0.000
10.97	26485		0.000
11.12	2418019		0.000
11.22	500164	AR1248 Peak3	2257.059
11.39	11614		0.000
11.54	367414		0.000
11.59	922496		0.000
11.63	1102313		0.000
11.71	619849	AR1254 Peak1	1318.132
11.89	39747		0.000
12.01	262997		0.000
12.10	586042		0.000
12.18	966338		0.000
12.27	347177		0.000
12.36	138479		0.000
12.42	3122204		0.000
12.51	557695	AR1254 Peak2	1125.451
12.65	957960		0.000
12.79	2084428	AR1262 Peak1	9270.922
12.88	295893		0.000
12.98	846490	AR1254 Peak3	2195.298
13.08	118071		0.000
13.22	260680		0.000
13.33	3521940	AR1262 Peak2	12958.193
13.54	2222233		0.000
13.67	416698		0.000
13.77	342142		0.000
13.87	4273066		0.000
14.10	1327021	AR1262 Peak3	3944.215
14.19	2108107		0.000
14.36	127391		0.000
14.44	1405927		0.000
14.52	474857		0.000
14.58	837304		0.000
14.66	303657		0.000
14.76	1021787		0.000
14.97	598015		0.000
15.06	268215		0.000
15.18	1897131		0.000
15.26	1351312	AR1260 Peak1	2966.353
15.37	114959		0.000
15.53	15128		0.000
15.61	6901		0.000
15.73	1029012		0.000
15.79	1284067	AR1260 Peak2	4296.589
15.87	1348279	AR1268 Peak1	2044.837
15.98	137349		0.000
16.12	13912		0.000
16.24	729240	AR1268 Peak2	1583.652
16.43	587509		0.000
16.56	15301		0.000
16.75	109536		0.000
16.92	843393		0.000
17.01	99331	AR1260 Peak3	985.333
17.19	14675		0.000
17.47	1056119	AR1268 Peak3	902.627
17.83	608079	DCB	174.393
17.97	39321		0.000
18.15	30032		0.000
18.35	90591		0.000

00323

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
18.44	32977		0.000
18.73	165368		0.000

00324



Sample Name = 0060414-02RE2 E0033RE
Date Taken (start) = 5/5/06 18:17:55
Raw File Name = E:\data\HP90D1\0000089R.0099.RAW
Method File Name = E:\MET\D4.2DUALCOL2.MET
Calibration File Name = E:\CAL\DAROGMB.cal

Instrument : HP90D2
Column: RTXCLP2 id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

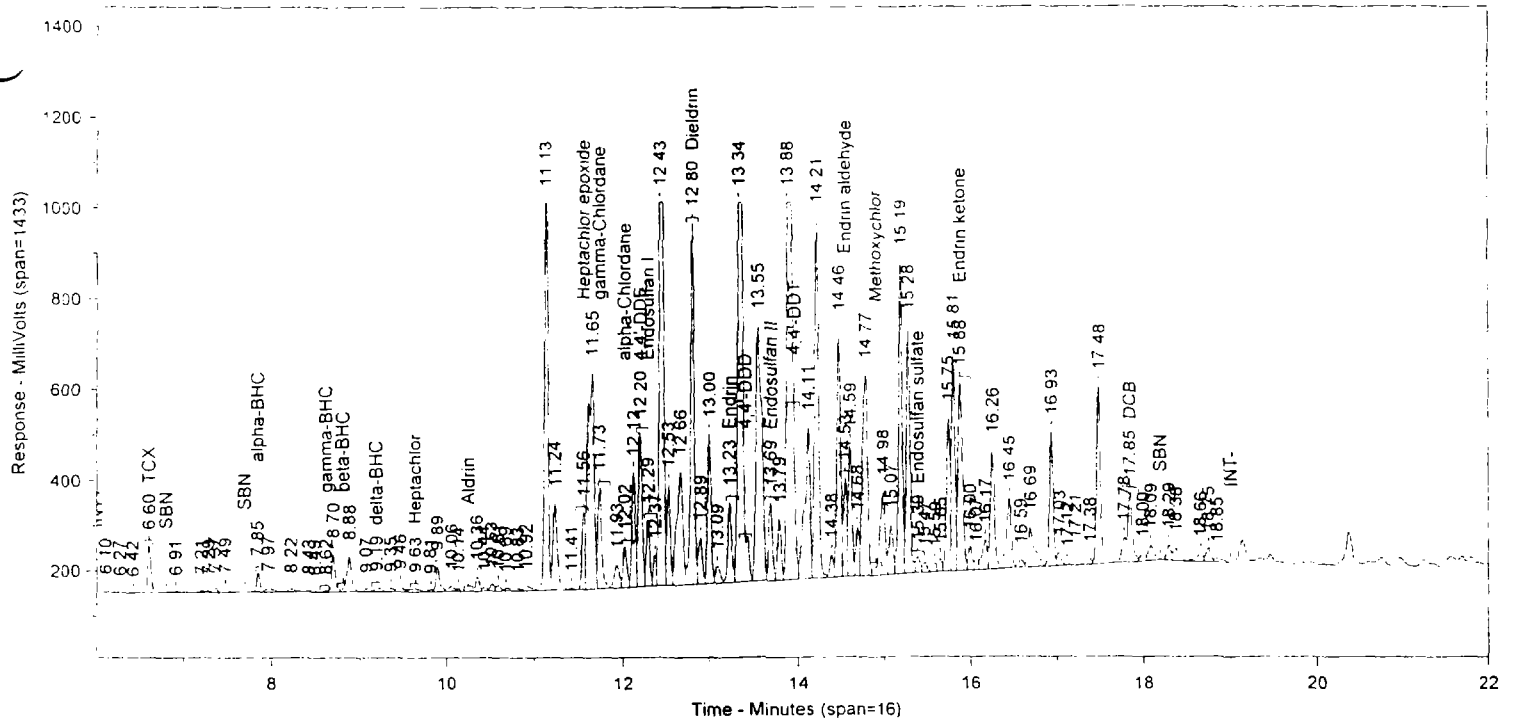
Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
6.05	94016		0.000
6.17	41324		0.000
6.37	22538		0.000
6.52	14512		0.000
6.61	41193	AR1221 Peak1	196.245
6.69	157082		0.000
6.80	228670		0.000
6.94	22163		0.000
7.10	208634		0.000
7.14	232766		0.000
7.20	217472		0.000
7.46	4591		0.000
7.67	1845623	TCX	91.049
7.90	49534		0.000
8.00	74346	AR1221 Peak2	1185.645
8.19	38776		0.000
8.30	40114		0.000
8.37	22471	AR1221 Peak3	80.245
8.49	177964		0.000
8.58	34367		0.000
8.69	33071	AR1232 Peak1	251.531
8.82	144181	AR1016 Peak1	298.909
9.03	987382		0.000
9.18	58488		0.000
9.27	23077		0.000
9.44	13892		0.000
9.52	2593856		0.000
9.75	168670	AR1016 Peak2	171.315

Ret Time (min)	Peak Area	Peak Name	Amount Fnd. ug/L
9.86	218966	AR1232 Peak2	2388.499
10.00	102164		0.000
10.17	50520		0.000
10.28	339724	AR1232 Peak3	2356.946
10.45	192493		0.000
10.54	157876		0.000
10.75	408468		0.000
10.91	141094		0.000
11.02	399878		0.000
11.13	133157	AR1242 Peak2	205.007
11.26	341127		0.000
11.33	187518	AR1242 Peak3	500.496
11.45	938553		0.000
11.54	413942	AR1248 Peak1	670.786
11.62	247011	AR1248 Peak2	455.678
11.68	344678		0.000
11.81	495710		0.000
12.01	1591501		0.000
12.11	489162	AR1248 Peak3	644.968
12.18	425856		0.000
12.26	970686		0.000
12.34	612599		0.000
12.42	746010		0.000
12.58	887452		0.000
12.65	951774		0.000
12.84	4970068		0.000
13.03	2490533		0.000
13.12	2281004		0.000
13.23	3910497		0.000
13.36	2716457	AR1254 Peak2	2184.653
13.43	3576515		0.000
13.58	352475		0.000
13.71	950515		0.000
13.82	2787251		0.000
13.94	3416486		0.000
14.07	1915697		0.000
14.12	7706024		0.000
14.37	3175999		0.000
14.47	1444063		0.000
14.52	6604519		0.000
14.77	1299633		0.000
14.83	2891136		0.000
14.93	3961009		0.000
15.13	3293468		0.000
15.25	5433524		0.000
15.47	2547510		0.000
15.56	2183615		0.000
15.61	7261830		0.000
15.84	7473104		0.000
16.15	1792699		0.000
16.27	1591209		0.000
16.37	4847908		0.000
16.59	321325		0.000
16.77	80031		0.000
16.88	4873860		0.000
17.09	681464		0.000
17.20	1024211		0.000
17.37	6205		0.000
17.52	447418		0.000
17.60	8754682		0.000
17.88	57319		0.000
17.95	148112		0.000
18.11	2564761		0.000
18.24	1490994	AR1268 Peak1	909.954
18.44	3209216		0.000
18.58	379435		0.000
18.78	3904540		0.000
18.99	57487		0.000

Ret Time (min)	Peak Area	Peak Name	Amount Fnd. ug/L
19 08	38889		0.000
19 16	66263		0.000
19 39	91904		0.000
19 52	3794265		0.000
19 92	115723		0.000
20 03	25536		0.000
20 19	3084183	DCB	247.753
20 42	224552		0.000
20 58	488923		0.000
20 80	93899		0.000
20.91	167464		0.000
21 16	660282		0.000
21 33	34886		0.000
21.53	10717		0.000
21 64	39018		0.000
21 77	20915		0.000

06327

E:\data\HP90D1\0000096F.0038.BND * 0060414-02 E0033
E:\data\HP90D1\0000096F.0038.RAW 0060414-02 E0033



Sample Name = 0060414-02 E0033
Date Taken (start) = 5/3/06 14:43:25
Raw File Name = E:\data\HP90D1\0000096F.0038.RAW
Method File Name = E:\MET\D4.2DUALCOL1.MET
Calibration File Name = E:\CAL\DSOM0501.cal

Instrument : HP90D1
Column: RTXCLP id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
6.10	28965		0.000
6.27	8762		0.000
6.42	12163		0.000
6.60	272101	TCX	48.685
6.91	13965		0.000
7.21	12480		0.000
7.29	9505		0.000
7.37	31928		0.000
7.49	35921		0.000
7.85	118450	alpha-BHC	17.871
7.97	54538		0.000
8.22	26436		0.000
8.43	6822		0.000
8.49	8288		0.000
8.62	12436	gamma-BHC	1.915
8.70	245895		0.000
8.88	302412		0.000
9.07	31227		0.000
9.19	46160	delta-BHC	8.053
9.35	24586		0.000
9.46	66383		0.000
9.63	64446	Heptachlor	11.654
9.81	18205		0.000
9.89	186225		0.000
10.06	63993		0.000
10.14	16521		0.000
10.36	101788		0.000
10.44	29685		0.000

00022

Ret Time (min)	Peak Area	Peak Name	Amount Fnd. ug/L
10.53	63101		0.000
10.61	43922		0.000
10.69	28274		0.000
10.83	17459		0.000
10.92	57468		0.000
11.13	2721869		0.000
11.24	641965		0.000
11.41	14556		0.000
11.56	429721	Heptachlor epoxide	83.166
11.65	2419786		0.000
11.73	674223	gamma-Chlordane	130.952
11.93	212703		0.000
12.02	278123	alpha-Chlordane	55.263
12.12	726306		0.000
12.20	1088084	4,4'-DDE	255.737
12.29	414814	Endosulfan I	82.568
12.37	163190		0.000
12.43	3287804		0.000
12.53	617293		0.000
12.66	1228707		0.000
12.80	2374464	Dieldrin	462.695
12.89	328810		0.000
13.00	996053		0.000
13.09	142076		0.000
13.23	534992	Endrin	133.158
13.34	3839931		0.000
13.55	2548582		0.000
13.69	482987	Endosulfan II	104.385
13.79	396346		0.000
13.88	4486662		0.000
14.11	1458172		0.000
14.21	2515357		0.000
14.38	142226		0.000
14.46	1621573		0.000
14.53	607439	Endrin aldehyde	172.817
14.59	866714		0.000
14.68	292576		0.000
14.77	1832803		0.000
14.98	865211		0.000
15.07	361888		0.000
15.19	2085830		0.000
15.28	1574748		0.000
15.39	118597	Endosulfan sulfate	30.529
15.47	75434		0.000
15.59	63629		0.000
15.65	90808		0.000
15.75	1011105		0.000
15.81	1395370		0.000
15.88	1556760	Endrin ketone	313.111
16.00	161912		0.000
16.07	70454		0.000
16.17	289099		0.000
16.26	818775		0.000
16.45	678120		0.000
16.59	61500		0.000
16.69	462470		0.000
16.93	907799		0.000
17.03	101098		0.000
17.12	16675		0.000
17.21	112140		0.000
17.38	53153		0.000
17.48	1240374		0.000
17.78	169434		0.000
17.85	567462	DCB	141.887
18.00	72431		0.000
18.09	151461		0.000
18.29	115036		0.000
18.38	122708		0.000

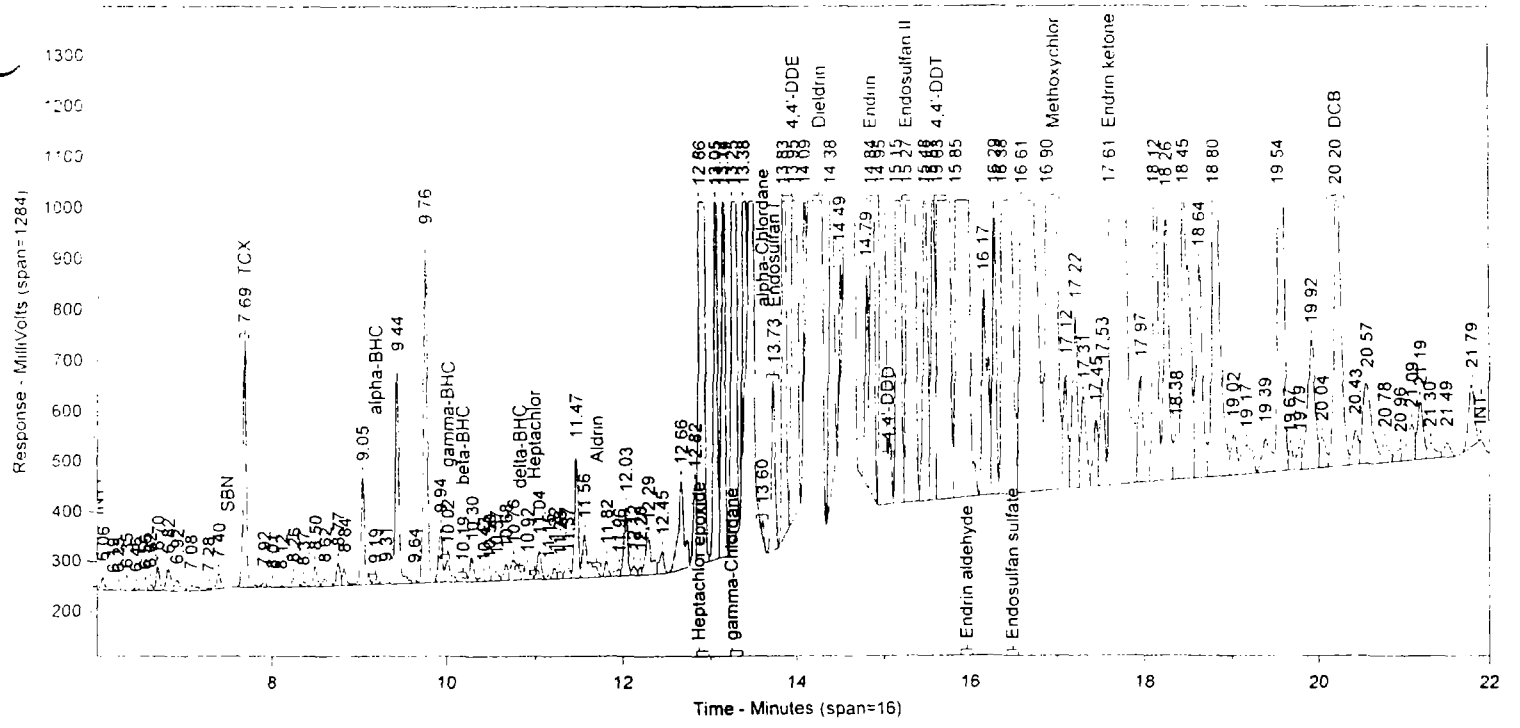
00023

Ret Time (min)	Peak Area	Peak Name	Amount Fnd. ug/L
18.66	94196		0.000
18.75	116496		0.000
18.85	47137		0.000

00024

E:\data\HP90D1\0000096R.0038 BND *
E:\data\HP90D1\0000096R.0038 RAW

0060414-02 E0033
0060414-02 E0033



Sample Name = 0060414-02 E0033
Date Taken (start) = 5/3/06 14:43:25
Raw File Name = E:\data\HP90D1\0000096R.0038.RAW
Method File Name = E:\MET\D4.2DUALCOL2.MET
Calibration File Name = E:\CAL\DSOM0501B.cal

Instrument : HP90D2
Column: RTXCLP2 id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

Ret Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
6.06	79691		0.000
6.19	7269		0.000
6.25	18250		0.000
6.35	42878		0.000
6.46	16863		0.000
6.56	34060		0.000
6.62	39680		0.000
6.70	137450		0.000
6.82	164000		0.000
6.92	91648		0.000
7.08	70003		0.000
7.28	17193		0.000
7.40	97164		0.000
7.69	1317108	TCX	41.404
7.92	26908		0.000
8.01	17405		0.000
8.12	10286		0.000
8.26	68662		0.000
8.37	29974		0.000
8.50	128476		0.000
8.62	73432		0.000
8.77	142236		0.000
8.84	112059		0.000
9.05	671744		0.000
9.19	31991	alpha-BHC	0.750
9.31	60424		0.000
9.44	1284847		0.000
9.64	27490		0.000

00025

Ret Time (min)	Peak Area	Peak Name	Amount Fnd ug/L
9.76	1862422		0.000
9.94	322924		0.000
10.02	182101	gamma-BHC	4.627
10.19	28748	beta-BHC	1.514
10.30	170203		0.000
10.43	35633		0.000
10.50	45069		0.000
10.57	92736		0.000
10.68	105836		0.000
10.76	242422		0.000
10.92	118520		0.000
11.04	191825		0.000
11.15	22404		0.000
11.22	69884		0.000
11.28	44728		0.000
11.37	98111		0.000
11.47	697037		0.000
11.56	448532		0.000
11.82	94871		0.000
11.96	63953		0.000
12.03	408524		0.000
12.12	61976		0.000
12.20	41229		0.000
12.29	404332		0.000
12.45	163717		0.000
12.66	860642		0.000
12.82	408794		0.000
12.86	3948012	Heptachlor epoxide	124.938
13.05	2243043		0.000
13.14	2147120		0.000
13.25	3180019	gamma-Chlordane	99.282
13.38	1309254		0.000
13.60	62231	alpha-Chlordane	2.001
13.73	949525	Endosulfan I	31.611
13.83	2651565		0.000
13.95	3166185	4,4'-DDE	122.813
14.09	690956		0.000
14.38	2424733		0.000
14.49	411150		0.000
14.79	1074808		0.000
14.84	2434818	Endrin	112.212
14.95	3678999		0.000
15.15	2958224		0.000
15.27	4781498	Endosulfan II	202.715
15.48	2309114		0.000
15.57	2071500		0.000
15.63	6395156	4,4'-DDT	279.091
15.85	6660772		0.000
16.17	1921059		0.000
16.29	1733069		0.000
16.38	5607898		0.000
16.61	7905863		0.000
16.90	5621753		0.000
17.12	811491		0.000
17.22	1300617		0.000
17.31	805166		0.000
17.45	487267		0.000
17.53	751971		0.000
17.61	8138082	Endrin ketone	377.552
17.97	986450		0.000
18.12	2568022		0.000
18.26	2095469		0.000
18.38	312841		0.000
18.45	3675117		0.000
18.64	2038176		0.000
18.80	3983889		0.000
19.02	369841		0.000
19.17	506152		0.000

00026

Ret Time (min)	Peak Area	Peak Name	Amount Fnd. ug/L
19 39	441768		0.000
19 54	3278010		0.000
19 67	139703		0.000
19 79	188983		0.000
19 92	1537648		0.000
20 04	292170		0.000
20.20	3344100	DCB	185.728
20 43	356343		0.000
20 57	1213158		0.000
20 78	219838		0.000
20 96	128494		0 000
21 09	449327		0.000
21 19	558013		0.000
21 30	196954		0.000
21.49	152668		0.000
21 79	635710		0.000

00027

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: EDD33 CERCLIS No: ILD980794929

Case No: 35229 Site Name/Location: ~~IEPA~~ PDJ 6/14/06 DUNAVAN OIL (IL)

Contractor or EPA Lab: ENVIROSYSTEMS Data User: IEPA

No. of Samples: 8 Date Sampled or Date Received: 6/14/06

Have Chain-of-Custody records been received? Yes X No ____

Have traffic reports or packing lists been received? Yes X No ____

If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?

Yes ____ No ____

If no, which traffic report or packing list numbers are missing?

____ ____ ____ ____

____ ____ ____ ____

Are basic data forms in? Yes X No ____

No of samples claimed: ____ No. of samples received: ____

Received by: [signature] Date: 6/14/06

Received by LSSS: [signature] Date: 6/14/06

Review started: 26 JUNE 2006 Reviewer Signature: [signature]

Total time spent on review: 23 Date review completed: 5 July 2006

Copied by: A. C. Harvey Date: July 12, 2006

Mailed to user by: [signature] Date: 7-12-06

DATA USER:

Please fill in the blanks below and return this form to:

Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

____

____

Received by Data Mgmt. Coordinator for Files. Date: ____

DATE: July 25, 2006

IEPA
Attn: Mr. Bob Casper
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

SITE NAME: Dunavan Oil (IL)

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
35383	Data Chem	7	E00L8	soil

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: **U.S. EPA - Region 5**
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat Johnson
Data Coordinator
ESAT Region 5 **TechLaw**

AUG 01 2006

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: June 26, 2006

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

for Steve Ostrodka
Richard L Byrnes
7/21/06

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE Name: Dunavan Oil (IL)

Case Number: 35383 SDG Number: E00L8

Number and Type of Samples: 7 (soils) (VOA)

Sample Numbers: E00L8, E00L9, E00M0, E00M1 and E00M3 through E00M5

Laboratory: Data Chem Hrs for Review:

Following are our findings:

the data are usable and acceptable with the qualifications described in the attached narrative.
Richard L Byrnes

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Case Number: 35383
Site Name: Dunavan Oil (IL)

SDG Number: E00L8
Laboratory: Data Chem

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Seven (7) soil samples, numbered E00L8, E00L9, E00M0, E00M1 and E00M3 to E00M5 were collected on May 31, 2006. The lab received the samples on June 1, 2006 in good condition. The samples were analyzed for low and medium level Volatile lists of organic analytes. All samples were analyzed according to CLP SOW SOM01.1 (5/2005). The samples were validated according to USEPA CLP National Functional Guidelines for Superfund Organic Methods Data Review (1/2005).

There are no Trip Blanks or Field Blanks with this data package. Even though samples E00M1 and E00M3 had the same collection date and time, this reviewer did not regard them as duplicates.

Case Number: 35383
Site Name: Dunavan Oil (IL)

SDG Number: E00L8
Laboratory: Data Chem

1. HOLDING TIME

No defects were found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No defects were found.

3. CALIBRATION

The following low level Volatile samples are associated with the opening continuing calibration whose corresponding initial calibration has relative response factors (RRFs) outside primary criteria (0.005) for 1,4-Dioxane. No1,4-Dioxane was detected in the samples. Non-detects are qualified "R".

1,4-Dioxane
E00L8, E00L9, E00L9RE, E00M0, E00M0RE, E00M1, E00M1RE, E00M3, E00M3RE, E00M5, E00M5MS, E00M5MSD, VBLK01, VHBLK01

The following low Volatile samples are associated with the opening and closing continuing calibration whose relative response factors (RRFs) below the primary criteria (0.005). There are no detects. Non-detects are qualified "R".

1,4-Dioxane
E00L8, E00L9, E00L9RE, E00M0, E00M0RE, E00M1, E00M1RE, E00M3, E00M3RE, E00M5, E00M5MS, E00M5MSD, VBLK01, VHBLK01

The following low level Volatile samples are associated with an initial calibration in which a SMC/DMC whose relative response factors (RRFs) below the primary criteria (0.005). No action is taken on the DMC %RSD and RRF data alone.

1,4-Dioxane-d8
E00L8, E00L9, E00L9RE, E00M0, E00M0RE, E00M1, E00M1RE, E00M3, E00M3RE, E00M5, E00M5MS, E00M5MSD, VBLK01, VHBLK01

The following low level Volatile samples are associated opening and closing continuing calibration in which a SMC/DMC whose relative response factors (RRFs) below the primary criteria (0.005). No action is taken on the DMC %RSD and RRF data alone.

1,4-Dioxane-d8
E00L8, E00L9, E00L9RE, E00M0, E00M0RE, E00M1, E00M1RE, E00M3, E00M3RE, E00M5, E00M5MS, E00M5MSD, VBLK01, VHBLK01

The following medium level Volatile samples are associated with the opening continuing calibration whose corresponding initial calibration has relative response factors (RRFs) outside primary criteria (0.005) for 1,4-Dioxane. No 1,4-Dioxane was detected in the samples. Non-detects are qualified "R".

1,4-Dioxane
E00M4, E00M4MS, E004MSD, VBLK02, VHBLK02

The following medium Volatile samples are associated with the opening and closing continuing calibration whose relative response factors (RRFs) below the primary criteria (0.005). There are no detects. Non-detects are qualified "R".

1,4-Dioxane
E00M4, E00M4MS, E004MSD, VBLK02, VHBLK02

The following medium level Volatile samples are associated with the opening and closing calibration in which a SMC/DMC whose relative response factors (RRFs) below the primary criteria (0.005). No action is taken on the DMC %RSD and RRF data alone.

1,4-Dioxane-d8
E00M4, E00M4MS, E004MSD, VBLK02, VHBLK02

4. BLANKS

The following volatile samples are associated with a contaminated Storage Blank. Results are biased high. Hit are qualified "J".

Acetone
E00L8, E00L9, E00L9RE

The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to two times (2X) the CRQL. Hits are elevated to the CRQL and qualified "U" and non-detects are not flagged.

Methylene Chloride
E00L8, E00L9RE, E00M0RE, E00M1RE, E00M3RE, E00M5MSD, VHBLK01

The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to the CRQL. Hits are elevated to the CRQL and qualified "U" and non-detects are not flagged.

Toluene
E00L9, E00L9RE, VHBLK01

The following volatile samples have analyte concentrations reported above the CRQL and less than or equal to ten times (10X) the Storage Blank concentration. Hits are qualified "U" and non-detects are not flagged.

Acetone
E00M0, E00M0RE

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The following volatile soil samples have Deuterated Monitoring Compound recoveries above the QC limits. No target analytes were detected; therefore, no action was taken.

E00L8
Benzene

E00L9, E00L9RE, E00M0, E00M0RE, E00M1, E00M1RE, E00M5
Cyclohexane, Benzene, Trichloroethene, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane, Toluene, Tetrachloroethene, Ethylbenzene, o-Xylene, m,p-Xylene, Styrene, Isopropylbenzene

E00M3, E00M3RE
Cyclohexane, Benzene, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane

E00M5MS
Dichlorodifluoromethane, Chloromethane, Bromomethane, Chloroethane, Carbon Disulfide, Cyclohexane, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane

E00M5MSD
Cyclohexane, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane

The following volatile soil samples have Deuterated Monitoring Compound recoveries above the QC limits. Hits are qualified "J".

E00M5MS, E00M5MSD
Benzene

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The following low level Volatile samples have recoveries above the QC criteria. The unspiked sample E00M5 reported no detects for the compounds Trichloroethene, Benzene and Toluene; therefore, no action is taken.

E00M5MS, E00M5MD
Trichloroethene, Benzene, Toluene

7. FIELD BLANK AND FIELD DUPLICATE

There are no Trip Blanks, Field Blanks or Field Duplicates with this data package. Results are not qualified based upon the results of the Field Duplicates.

8. INTERNAL STANDARDS

The following low level Volatile samples have the area count below the QC criteria and greater than 10% of the 12-hour standard. Positive results are qualified "J" and non-detects are qualified "UJ".

E00L9, E00L9RE, E00M0, E00M0RE, E00M1, E00M1RE, E00M3, E00M5, E00M5MS, E00M5MSD
Bromoform, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E00L8
Carbon Disulfide

E00L9
Trichlorofluoromethane, Carbon Disulfide, 2-Butanone

E00L9RE
Trichlorofluoromethane, Carbon Disulfide

E00M0

2-Butanone

E00M0RE
Carbon Disulfide, 2-Butanone

E00M4
Methylcyclohexane, Toluene, Ethylbenzene, o-Xylene, m,p-Xylene, Isopropylbenzene

E00M4MS, E00M4MSD
Methylcyclohexane, Ethylbenzene, o-Xylene, m,p-Xylene, Isopropylbenzene

E00M5, E00M5MS
Trichlorofluoromethane

VBLK01
Methylene Chloride, Toluene

VBLK02
1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

VHBLK02
Acetone

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

12. ADDITIONAL INFORMATION

The following volatile samples failed the DMC recovery and the internal standard compound spiking solution the laboratory re-prepared the solutions and reanalyzed the samples. The results from the reanalyzed samples is in accordance to what was found on the first analysis; therefore, the end user should use the first analysis as the final results.

E00L9, E00M0, E00M1, E00M3

The following volatile samples CADRE did not enter the results on the Lotus and EDD spreadsheets. The end user should refer to the enclosed hard copy Form 1s for these results.

E00L9RE, E00M0RE, E00M1RE, E00M3RE, E00M4MS, E00M4MSD, E00M5MS, E00M5MSD, VHBLK01, VHBLK02, VBLK01, VBLK02

Case Number: 35383
Site Name: Dunavan Oil (IL)

SDG Number: E00L8
Laboratory: Data Chem

CADRE used OLM04.3 CRQL values of 330 µg/Kg for medium level soils instead of SOM01.1 CRQL values of 250 µg/Kg for the Volatile fraction. The values reported by the laboratory were corrected in the spreadsheets.

E00M4

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present.)

Analytical Results (Qualified Data)

Case #: 35383 SDG : E00L8
Site : DUNAVAN OIL
Lab. : DATAC
Reviewer
Date :

Number of Soil Samples : 7
Number of Water Samples 0
Number of Sediment Samples 0

Sample Number :	E00L8		E00L9		E00M0		E00M1		E00M3	
Sampling Location :	S103		S109		S110		S104		S105	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	6/1/2006		6/1/2006		6/1/2006		6/1/2006		6/1/2006	
Time Sampled :										
%Moisture :	32		52		23		32		34	
pH :										
Dilution Factor :	1 0		1 0		1 0		1.0		1 0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	7.3	U	10	U	6.2	U	7.2	U	7.2	U
Chloromethane	7.3	U	10	U	6 2	U	7 2	U	7 2	U
Vinyl chloride	7.3	U	10	U	6.2	U	7.2	U	7.2	U
Bromomethane	7 3	U	10	U	6 2	U	7.2	U	7 2	U
Chloroethane	7.3	U	10	U	6 2	U	7.2	U	7.2	U
Trichlorofluoromethane	7.3	U	1.1	J	6 2	U	7.2	U	7.2	U
1,1-Dichloroethene	7.3	U	10	U	6 2	U	7.2	U	7.2	U
1,1,2-Trichloro-1,2,2-trifluoroethane	7.3	U	10	U	6 2	U	7.2	U	7.2	U
Acetone	170	J	9.1	J	23	U	14	U	14	U
Carbon disulfide	4 1	J	6.5	J	6 2	U	7.2	U	7.2	U
Methyl acetate	7.3	U	10	U	6.2	U	7.2	U	7.2	U
Methylene chloride	7.3	U	10	U	6.2	U	7.2	U	7.2	U
trans-1,2-Dichloroethene	7.3	U	10	U	6.2	U	7.2	U	7.2	U
Methyl tert-butyl ether	7.3	U	10	U	6.2	U	7.2	U	7.2	U
1,1-Dichloroethane	7.3	U	10	U	6.2	U	7.2	U	7.2	U
cis-1,2-Dichloroethene	7 3	U	10	U	6 2	U	7.2	U	7.2	U
2-Butanone	49		16	U	4.3	J	14	U	14	U
Bromochloromethane	7.3	U	10	U	6.2	U	7.2	U	7.2	U
Chloroform	7.3	U	10	U	6.2	U	7.2	U	7.2	U
1,1,1-Trichloroethane	7.3	U	10	U	6.2	U	7.2	U	7.2	U
Cyclohexane	7.3	U	10	U	6.2	U	7.2	U	7.2	U
Carbon tetrachloride	7.3	U	10	U	6.2	U	7.2	U	7.2	U
Benzene	7.3	U	10	U	6.2	U	7.2	U	7.2	U
1,2-Dichloroethane	7.3	U	10	U	6.2	U	7.2	U	7 2	U
1,4-Dioxane	150	R	210		120	R	140	R	140	R
Trichloroethene	7.3	U	10	U	6.2	U	7 2	U	7.2	U
Methylcyclohexane	7.3	U	10	U	6 2	U	7.2	U	7.2	U
1,2-Dichloropropane	7.3	U	10	U	6.2	U	7.2	U	7.2	U
Bromodichloromethane	7.3	U	10	U	6 2	U	7.2	U	7.2	U
cis-1,3-Dichloropropene	7.3	U	10	U	6 2	U	7.2	U	7.2	U
4-Methyl-2-Pentanone	15	U	21	U	12	U	14	U	14	U
Toluene	7.3	U	10	U	6 2	U	7.2	U	7.2	U
trans-1,3-Dichloropropene	7.3	U	10	U	6 2	U	7.2	U	7.2	U

Analytical Results (Qualified Data)

Case # 35383 SDG E00L8
Site : DUNAVAN OIL
Lab DATAC
Reviewer :
Date :

Sample Number	E00L8		E00L9		E00M0		E00M1		E00M3	
Sampling Location :	S103		S109		S110		S104		S105	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	6/1/2006		6/1/2006		6/1/2006		6/1/2006		6/1/2006	
Time Sampled :										
%Moisture :	32		52		23		32		34	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	7.3	U	10	U	6.2	U	7.2	U	7.2	U
Tetrachloroethene	7.3	U	10	U	6.2	U	7.2	U	7.2	U
2-Hexanone	15	U	22	U	12	U	14	U	14	U
Dibromochloromethane	7.3	U	10	U	6.2	U	7.2	U	7.2	U
1,2-Dibromoethane	7.3	U	10	U	6.2	U	7.2	U	7.2	U
Chlorobenzene	7.3	U	10	U	6.2	U	7.2	U	7.2	U
Ethylbenzene	7.3	U	10	U	6.2	U	7.2	U	7.2	U
o-Xylene	7.3	U	10	U	6.2	U	7.2	U	7.2	U
m,p-Xylene	7.3	U	10	U	6.2	U	7.2	U	7.2	U
Styrene	7.3	U	10	U	6.2	U	7.2	U	7.2	U
Bromoform	7.3	U	10	UJ	6.2	UJ	7.2	UJ	7.2	UJ
Isopropylbenzene	7.3	U	10	U	6.2	U	7.2	U	7.2	U
1,1,2,2-Tetrachloroethane	7.3	U	10	U	6.2	U	7.2	U	7.2	U
1,3-Dichlorobenzene	7.3	U	10	UJ	6.2	UJ	7.2	UJ	7.2	UJ
1,4-Dichlorobenzene	7.3	U	10	UJ	6.2	UJ	7.2	UJ	7.2	UJ
1,2-Dichlorobenzene	7.3	U	10	UJ	6.2	UJ	7.2	UJ	7.2	UJ
1,2-Dibromo-3-chloropropane	7.3	U	10	UJ	6.2	UJ	7.2	UJ	7.2	UJ
1,2,4-Trichlorobenzene	7.3	U	10	UJ	6.2	UJ	7.2	UJ	7.2	UJ
1,2,3-Trichlorobenzene	7.3	U	10	UJ	6.2	UJ	7.2	UJ	7.2	UJ

Analytical Results (Qualified Data)

Case #: 35383 SDG : E00L8
Site : DUNAVAN OIL
Lab : DATAC
Reviewer :
Date

Sample Number :	E00M4		E00M5							
Sampling Location :	X117		X118							
Matrix	Soil		Soil							
Units	ug/Kg		ug/Kg							
Date Sampled :	6/1/2006		6/1/2006							
Time Sampled :										
%Moisture :	10		26							
pH :										
Dilution Factor :	1.0		1.0							
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	360	U	6.6	U						
Chloromethane	360	U	6.6	U						
Vinyl chloride	360	U	6.6	U						
Bromomethane	360	U	6.6	U						
Chloroethane	360	U	6.6	U						
Trichlorofluoromethane	360	U	1.0	J						
1,1-Dichloroethene	360	U	6.6	U						
1,1,2-Trichloro-1,2,2-trifluoroethane	360	U	6.6	U						
Acetone	720	U	13	U						
Carbon disulfide	360	U	6.6	U						
Methyl acetate	360	U	6.6	U						
Methylene chloride	360	U	6.6	U						
trans-1,2-Dichloroethene	360	U	6.6	U						
Methyl tert-butyl ether	360	U	6.6	U						
1,1-Dichloroethane	360	U	6.6	U						
cis-1,2-Dichloroethene	360	U	6.6	U						
2-Butanone	720	U	13	U						
Bromochloromethane	360	U	6.6	U						
Chloroform	360	U	6.6	U						
1,1,1-Trichloroethane	420		6.6	U						
Cyclohexane	360	U	6.6	U						
Carbon tetrachloride	360	U	6.6	U						
Benzene	360	U	6.6	U						
1,2-Dichloroethane	360	U	6.6	U						
1,4-Dioxane	7200	R	130	R						
Trichloroethene	360	U	6.6	U						
Methylcyclohexane	260	J	6.6	U						
1,2-Dichloropropane	360	U	6.6	U						
Bromodichloromethane	360	U	6.6	U						
cis-1,3-Dichloropropene	360	U	6.6	U						
4-Methyl-2-Pentanone	720	U	13	U						
Toluene	17	J	6.6	U						
trans-1,3-Dichloropropene	360	U	6.6	U						

Analytical Results (Qualified Data)

Case # 35383 SDG : E00L8
Site : DUNAVAN OIL
Lab DATAC
Reviewer :
Date :

Sample Number :	E00M4		E00M5							
Sampling Location :	X117		X118							
Matrix :	Soil		Soil							
Units :	ug/Kg		ug/Kg							
Date Sampled :	6/1/2006		6/1/2006							
Time Sampled :										
%Moisture :	10		26							
pH :										
Dilution Factor :	1.0		1.0							
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	360	U	6.6	U						
Tetrachloroethene	1700		6.6	U						
2-Hexanone	720	U	13	UJ						
Dibromochloromethane	360	U	6.6	U						
1,2-Dibromoethane	360	U	6.6	U						
Chlorobenzene	360	U	6.6	U						
Ethylbenzene	15	J	6.6	U						
o-Xylene	34	J	6.6	U						
m,p-Xylene	360	J	6.6	U						
Styrene	360	U	6.6	U						
Bromoform	360	U	6.6	U						
Isopropylbenzene	27	J	6.6	U						
1,1,2,2-Tetrachloroethane	360	U	6.6	U						
1,3-Dichlorobenzene	360	U	6.6	UJ						
1,4-Dichlorobenzene	360	U	6.6	UJ						
1,2-Dichlorobenzene	360	U	6.6	UJ						
1,2-Dibromo-3-chloropropane	360	U	6.6	UJ						
1,2,4-Trichlorobenzene	360	U	6.6	UJ						
1,2,3-Trichlorobenzene	360	U	6.6	UJ						

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 6/26/06

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: Dunavan Oil (IL)

CASE NUMBER: 35383 SDG NUMBER: EQUL8

Number and Type of Samples: 7 soil samples

Sample Numbers: EQUL8; L9; M0-M1; M3-M5

Laboratory: DataChem Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

SAMPLE DELIVERY GROUP (SDG)
TRAFFIC REPORT (TR) COVER SHEET

Lab Name: DataChem Laboratories, Inc. Contract No.: EP-W-05-026

Lab Code: DATAC Case No.: 35383 Delivery Order No. A2

Full Sample Analysis Price in Contract: N/A

SDG No./First Sample in SDG: E00L8 Sample Receipt Date: 6/01/06
(Lowest EPA Sample Number in first shipment received under SDG.)

Last Sample in SDG: E00M3 Sample Receipt Date: 6/01/06
(Highest EPA Sample Number in last shipment of samples received under SDG.)

EPA Sample Numbers in the SDG (listed in alphanumeric order):

1. E00L8	11.
2. E00L9	12.
3. E00M0	13.
4. E00M1	14.
5. E00M3	15.
6. E00M4	16.
7. E00M5	17.
8.	18.
9.	19.
10.	20.

Note: There are a maximum of 20 field samples in an SDG.

Attach Traffic Reports to this form in alphanumeric order (i.e., the order listed on this form).

Amy Delgado
Sample Receiving

6/7/2006
Date

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

EPA

Case No:	35383
DAS No:	
SDG No:	E00L8

L

Date Shipped:	5/31/2006
Carrier Name:	UPS
Airbill:	1Z6215892210025945
Shipped to:	Datachem Laboratories, Inc. 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
[signature]	5/31/06 1400	[signature]	6/1/06 1010
2			
3			
4			

Sampler Signature: [signature]

For Lab Use Only

Lab Contract No:	EP-W-05-026
Unit Price:	N/A
Transfer To:	
Lab Contract No:	
Unit Price:	

6/6/06

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00L8	Soil/Sediment/ Lance Range	L/G	VOA (21)	5-277427 (Ice Only), 5-277428 (Ice Only) (2)	S103	S: 5/31/2006 10:25		
E00L9	Soil/Sediment/ Lance Range	L/G	VOA (21)	5-277429 (Ice Only), 5-277430 (Ice Only) (2)	S109	S: 5/31/2006 10:35		
E00M0	Soil/Sediment/ Lance Range	L/G	VOA (21)	5-277431 (Ice Only), 5-277432 (Ice Only) (2)	S110	S: 5/31/2006 10:50		
E00M1	Soil/Sediment/ Lance Range	L/G	VOA (21)	5-277433 (Ice Only), 5-277434 (Ice Only) (2)	S104	S: 5/31/2006 11:10		
E00M3	Soil/Sediment/ Lance Range	L/G	VOA (21)	5-277435 (Ice Only), 5-277436 (Ice Only) (2)	S105	S: 5/31/2006 11:10		
E00M4	Soil (0"-12")/ Lance Range	L/G	Dry Weight (21), VOA (21)	5-277437 (Ice Only), 5-277438 (Ice Only) (2)	X117	S: 5/31/2006 11:45		
E00M5	Soil (0"-12")/ Lance Range	L/G	Dry Weight (21), VOA (21)	5-277439 (Ice Only), 5-277440 (Ice Only) (2)	X118	S: 5/31/2006 11:50		

6/6/06

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E00M3, E00M5	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5.8	Chain of Custody Seal Number: 89302
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

Dry Weight = Dry Weight, VOA = CLP TCL Volatiles

STR Number: 5-433491573-060506-0001

RR provides preliminary results. Requests for preliminary results will increase analytical costs.

LABORATORY COPY

This form was created by CLEAR Version 6 for Windows. For more information visit http://www.epa.gov/

Form Unknown Page: 22 Date: 6/6/2006 1:22:40 PM

DATA CHEM
LABORATORIES
A SORENSON COMPANY

SDG Narrative
Low/Medium Volatiles

Contract: EPW05026
Case: 35383
SDG: E00L8
Laboratory Name: Datachem Laboratories
Sample No:

EPA Sample No.	DCL Sample ID.	pH	Dilution
E00L8	06C02654	NA	
E00L9	06C02655	NA	
E00L9RE	06C02655RE	NA	
E00M0	06C02656	NA	
E00M0RE	06C02656RE	NA	
E00M1	06C02657	NA	
E00M1RE	06C02657RE	NA	
E00M3	06C02658	NA	
E00M3RE	06C02658RE	NA	
E00M4	06C02659	NA	
E00M4MS	06C02659MS	NA	
E00M4MSD	06C02659MSD	NA	
E00M5	06C02660	NA	
E00M5MS	06C02660MS	NA	
E00M5MSD	06C02660MSD	NA	

General SDG Information: Samples were analyzed according to USEPA CLP Statement of Work SOM01.1. There were no deviations from the SOW except as listed below.

Instrumentation: Hewlett Packard 5972-S GC/MSD with electron impact ionization and quadrupole detector scanning at a mass range of 35 to 300 amu. Column: J&W Scientific DB624 - 75meters, 0.53 mm id., 3 um film

Temperature Program: *35°C (2.0 min) 8°/min ramp to 180° (0.1 min) 60°/min ramp to 220° *Cryogenically cooled with liquid nitrogen

Carrier Gas: Helium Purge Gas: Helium

Purge and Trap Device: Varian Archon Autosampler/Tekmar Dynamic Headspace Concentrator /LSC 2000

Purge Flow: 35 mL/min Trap: Vocarb 3000 Trap Temp: 35°C

Instrumentation: Hewlett Packard 5971-L GC/MSD with electron impact ionization and quadrupole detector scanning at a mass range of 35 to 300 amu. Column: J&W Scientific DB624 - 75meters, 0.53 mm id., 3 um film

Temperature Program: *10°C (2.0 min) 8°/min ramp to 180° (0.1 min) 30°/min ramp to 220° *Cryogenically cooled with liquid nitrogen

Carrier Gas: Helium Purge Gas: Helium

Purge and Trap Device: Tekmar 2016 Autosampler/Tekmar Dynamic

Headspace Concentrator /LSC 2000
Purge Flow: 35 mL/min Trap: Vocarb 3000 Trap Temp: 35°C

Sample Preparation: This method has no extraction procedure for the low soil matrix. Samples were received in wide mouth jars rather than EnCore samplers with the exceptions of 06C02659 (E00M4) and 06C02660 (E00M5). Three vials were prepared, two with stir bars and one without. Upon receipt, the EnCore samples were extruded into each of the three vials and frozen until analysis. For low soil samples, five milliliters of reagent water is added to one vial containing the sample and a stir bar. An additional 5 mL of reagent water containing ISTDs and DMCs is added and the sample is purged. For medium level soil samples, five milliliters of methanol is added to the vial with no stir bar. The sample is shaken for 2 minutes and a 2 mL aliquot is transferred to a 2 mL vial. A 100 µL aliquot of the extract is added to 5 mL of reagent water containing ISTD/DMC's and purged.

Instrument Calibration: The GC/MS was tuned to meet the criteria for a 50 ng purging of 4-Bromofluorobenzene as specified in the SOW. This tune check is valid for 12 hours.

Initial and Continuing Calibration Verification: The five point initial calibration curves, which are used for the quantitation of each target compound , met the specified criteria in the SOW except for the minimum RRF for the dioxanes. Due to an interfering ion from 1,2-dichloropropane, a secondary ion of 55 was used for the quantitation of methylcyclohexane for all calibrations, blanks, and samples analyzed. All calibration standards met all method criteria as specified in the SOW except for the dioxanes. Occasionally, manual edits are made in some samples and standards for various mis-called or incorrectly integrated peaks. Every manual integration is noted by an "m" footnote on the quantitation report, and an additional graphics page is included for each manual integration to show how the peak was integrated. Analytes that required manual integrations are listed.

Sample	Initial Scan	Final Scan	Analyte

Blank Analysis: Method blanks were prepared using 5 grams of Ottawa Sand for the soils. The blanks were analyzed prior to sample analysis and were free of volatile organic contaminants within the specifications of the SOW with exceptions flagged with a "B."

Sample Analysis: All deuterated monitoring compounds and internal standard area responses were within the required acceptance criteria unless otherwise on forms II and VIII. All samples were analyzed within ten days of verified sample receipt.

MS/MSD Analysis: MS/MSD analyses were performed for samples 06C02659 (E00M4) and 06C02660 (E00M5).

Miscellaneous Comments: As instructed in the SOW, alkanes are not reported separately on the Form 1J but rather are summarized as "total alkanes."

With regard to the naming of tentatively-identified compounds (TICs), spectral matches above 85 percent are reported as a specific isomer unless the analyst has a specific reason to assign a different name. Reasons for assigning a TIC name other than the match with the highest fit value above 85% include instances in which the analyst has previous experience with respect to a specific compound. When the first computer-generated match is a target compound and retention time information clearly indicates the TIC is in fact not the target compound, the analyst reserves the right to give a more appropriate tentative identification. There may be instances in which a specific compound name is assigned to more than one peak. Even though specific names will usually be given to TICs with spectral fits above 85%, it must be understood by the data user that TIC names are very tentative, and it cannot be assumed that the specific isomers reported are correct. One case where specific names are not given to

spectral matches above 85% is for alkanes, because the SOW requires alkanes to be reported as either straight-chain, branched or cyclic and summarized as "total alkanes." Recoveries of target analytes are reported on the CLP Forms in units of ug/L for waters and ug/Kg for soils.

I certify that this Sample Data Package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy Sample Data Package and in the electronic data deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

June 21, 2006

Christopher Q. Coleman
Chemist
Volatile Organic Analysis Section

Pate, Justin M.

From: Olson, Roxanne
Sent: Wednesday, June 07, 2006 1:26 PM
To: Coleman, Christopher Q.; Pate, Justin M.
Subject: FW: Region 05 | Case 35383 | Lab DATAC | Issue Insufficient/inappropriate designation of laboratory QC | FINAL

From: Maruska, Gale [mailto:gmaruska@fedcsc.com]
Sent: Wednesday, June 07, 2006 1:23 PM
To: Stephens, Brent; Wade, Richard W.; Olson, Roxanne
Cc: Mark Wagner (E-mail); Carlene Thomas (E-mail); Howard Pham (E-mail); Warren Layne (E-mail)
Subject: Region 05 | Case 35383 | Lab DATAC | Issue Insufficient/inappropriate designation of laboratory QC | FINAL

Roxy,

Issue: The TR/COC has designated two samples for MS/MSD, E00M5 and E00M3. The Lab would like to use sample M5 for MS/MSD.

Resolution: In accordance with previous direction from Region 5, the laboratory will select one of the designated samples for laboratory QC. The laboratory will note the issue in the SDG Narrative, notify the SMO coordinator of the sample selected for QC, and proceed with the analysis of the samples.

Please let me know if you have any questions.

Gale E. Maruska
Computer Sciences Corporation
Environmental Scientist
ST&R Coordinator Regions 5, 7 & 10
gmaruska@fedcsc.com
Phone(703)818-4125; Fax(703)818-4601; Alternate Fax(703)818-4602

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

6/7/06: Gale Maruska, SMO, spoke with Roxy Olson, DATAC. The TR/COC has designated two samples for MS/MSD, E00M5 and E00M3. The Lab would like to use sample M5 for MS/MSD.

2C - FORM II VOA-3

SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-09-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E00L8

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	E00L8	107	117	78	83	108	99	130 *
02	E00L9	113	123	81	99	111	101	142 *
03	E00L9RE	113	122	83	96	112	103	144 *
04	E00M0	112	123	80	71	112	102	144 *
05	E00M0RE	111	125	80	80	113	105	141 *
06	E00M1	108	120	79	74	114	106	145 *
07	E00M1RE	112	123	83	76	116	109	134 *
08	E00M3	111	124	80	64	114	109	141 *
09	E00M3RE	106	116	80	67	111	106	134 *
10	E00M5	118	130	83	55	119	110	147 *
11	E00M5MS	114	133 *	111	66	119	115	142 *
12	E00M5MSD	109	122	109	58	119	116	143 *
13	VBLK01	102	112	76	70	107	100	115
14	VHBLK01	101	112	76	69	110	106	116
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

		QC LIMITS
VDMC1 (VCL)	= Vinyl chloride-d3	(68-122)
VDMC2 (CLA)	= Chloroethane-d5	(61-130)
VDMC3 (DCE)	= 1,1-Dichloroethene-d2	(45-132)
VDMC4 (BUT)	= 2-Butanone-d5	(20-182)
VDMC5 (CLF)	= Chloroform-d	(72-123)
VDMC6 (DCA)	= 1,2-Dichloroethane-d4	(79-122)
VDMC7 (BEN)	= Benzene-d6	(80-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2D - FORM II VOA-4

SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E00L8

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCB) #	TOT OUT
01	E00L8	123	117	112	91	92	98	101	1
02	E00L9	135 *	124 *	111	109	56	96	103	3
03	E00L9RE	136 *	123 *	120	104	56	91	99	3
04	E00M0	137 *	125 *	113	88	88	104	105	3
05	E00M0RE	138 *	124 *	116	92	81	108	105	3
06	E00M1	141 *	122 *	117	81	106	93	95	3
07	E00M1RE	150 *	128 *	121	81	111	98	97	3
08	E00M3	139 *	121	114	73	109	102	99	2
09	E00M3RE	130 *	119	112	74	99	97	97	2
10	E00M5	148 *	123 *	94	58	105	96	98	3
11	E00M5MS	144 *	119	96	66	134	103	98	3
12	E00M5MSD	146 *	120	92	61	133	110	99	2
13	VBLK01	108	107	110	77	92	100	102	0
14	VHBLK01	114	107	114	77	91	101	105	0
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

VPMC8 (DPA) QC LIMITS (74-124)

VDMC9 (TOL) = Toluene-d8 (78-121)
VDMC10 (TDP) = trans-1,3-Dichloropropene-d4 (72-130)
VDMC11 (HEX) = 2-Hexanone-d5 (17-184)
VDMC12 (DXE) = 1,4-Dioxane-d8 (50-150)
VDMC13 (TCA) = 1,1,2,2-Tetrachloroethane-d2 (56-161)
VDMC14 (DCB) = 1,2-Dichlorobenzene-d4 (70-131)

Column to be used to flag recovery values
* Values outside of contract required QC limits

2C - FORM II VOA-3

SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E00L8

Level: (LOW/MED) MED

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	E00M4	97	103	79	115	102	103	112
02	E00M4MS	104	105	111	101	100	96	110
03	E00M4MSD	104	105	112	96	101	96	114
04	VBLK02	102	106	81	102	98	91	117
05	VHBLK02	104	99	86	92	100	93	116
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	QC LIMITS
VDMC1 (VCL) = Vinyl chloride-d3	(68-122)
VDMC2 (CLA) = Chloroethane-d5	(61-130)
VDMC3 (DCE) = 1,1-Dichloroethene-d2	(45-132)
VDMC4 (BUT) = 2-Butanone-d5	(20-182)
VDMC5 (CLF) = Chloroform-d	(72-123)
VDMC6 (DCA) = 1,2-Dichloroethane-d4	(79-122)
VDMC7 (BEN) = Benzene-d6	(80-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2D - FORM II VOA-4

SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E0018

Level: (LOW MED) MED

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DC2) #	TOT OUT
01	E00M4	107	106	113	109	99	112	102	0
02	E00M4MS	107	109	108	99	89	105	100	0
03	E00M4MSD	105	108	105	87	89	101	98	0
04	VBLK02	107	108	106	95	83	102	100	0
05	VHBLK02	109	109	107	88	81	94	100	0
06									
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

VDMC8 (DPA)

		QC LIMITS (74-124)
VDMC9 (TOL)	= Toluene-d8	(78-121)
VDMC10 (TDP)	= trans-1,3-Dichloropropene-d4	(72-130)
VDMC11 (HEX)	= 2-Hexanone-d5	(17-184)
VDMC12 (DXE)	= 1,4-Dioxane-d8	(50-150)
VDMC13 (TCA)	= 1,1,2,2-Tetrachloroethane-d2	(56-161)
VDMC14 (DC2)	= 1,2-Dichlorobenzene-d4	(70-131)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3B - FORM III VOA-2

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E0018

Matrix Spike - EPA Sample No.: E00M5 Level: (LOW/MED) LOW

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
1,1-Dichloroethene	66	0.0	81	122	59-172
Trichloroethene	66	0.0	110	170 *	62-137
Benzene	66	0.0	120	179 *	66-142
Toluene	66	0.0	96	145 *	59-139
Chlorobenzene	66	0.0	84	127	60-133

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
1,1-Dichloroethene	70	84	120	3	0-22	59-172
Trichloroethene	70	120	166 *	3	0-24	62-137
Benzene	70	120	176 *	3	0-21	66-142
Toluene	70	99	142 *	3	0-21	59-139
Chlorobenzene	70	86	124	2	0-21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 6 out of 10 outside limits

COMMENTS: _____

3B - FORM III VOA-2

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E0018

Matrix Spike - EPA Sample No.: E00M4 Level: (LOW/MED) MED

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
1,1-Dichloroethene	3100	0.0	3600	118	59-172
Trichloroethene	3100	0.0	3500	113	62-137
Benzene	3100	0.0	3600	116	66-142
Toluene	3100	17	3500	112	59-139
Chlorobenzene	3100	0.0	3300	108	60-133

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
1,1-Dichloroethene	3100	3600	117	1	0-22	59-172
Trichloroethene	3100	3400	110	3	0-24	62-137
Benzene	3100	3600	116	2	0-21	66-142
Toluene	3100	3300	107	4	0-21	59-139
Chlorobenzene	3100	3200	105	3	0-21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: SDG No.: E00L8

Lab File ID: SD59BLK Lab Sample ID: BL-246141-1

Instrument ID: 5972-S

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/07/2006

Level: (TRACE or LOW/MED) LOW Time Analyzed: 10:52

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E00L8	06C02654	SD60C654	11:27
02	E00L9	06C02655	SD61C655	12:01
03	E00M0	06C02656	SD62C656	12:35
04	E00M1	06C02657	SD63C657	13:10
05	E00M3	06C02658	SD64C658	13:44
06	E00M5	06C02660	SD65C660	14:17
07	E00M5MS	06C02660MS	SD66S660	14:52
08	E00M5MSD	06C02660MSD	SD67D660	15:26
09	E00L9RE	06C02655RE	SD61R655	16:02
10	E00M0RE	06C02656RE	SD62R656	16:36
11	E00M1RE	06C02657RE	SD63R657	17:11
12	E00M3RE	06C02658RE	SD64R658	17:44
13	VHBLK01	BL-246141-2	SD68HBLK	18:18
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK02

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E00L8

Lab File ID: LY23BLK Lab Sample ID: BL-246141-3

Instrument ID: 5971-L

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/07/2006

Level: (TRACE or LOW/MED) MED Time Analyzed: 13:09

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E00M4	06C02659	LY23E659	13:43
02	E00M4MS	06C02659MS	LY24S659	14:17
03	E00M4MSD	06C02659MSD	LY25D659	14:51
04	VHBLK02	BL-246141-4	LY26HBLK	15:24
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L3RE

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E00L8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 06C02655RE

Sample wt/vol: 5.18 (g/mL) g Lab File ID: SD61R655

Level: (TRACE/LOW/MED) LOW Date Received: 06/01/2006

% Moisture: not dec. 52 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	1.0	J
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	91	
75-15-0	Carbon disulfide	6.3	J
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10 1.6	JB
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	23	
74-97-5	Bromochloromethane	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
123-91-1	1,4-Dioxane	200	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0CL9RE

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-09-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E0CL8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 06C02635RE

Sample wt/vol: 5.18 (g/mL) g Lab File ID: SD61R655

Level: (TRACE/LOW/MED) LOW Date Received: 06/01/2006

% Moisture: not dec. 52 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	20	U
108-88-3	Toluene	10 0.38	JB u
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	20	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
95-47-6	o-Xylene	10	U
179601-23-1	m,p-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U

RB 7/12/06

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0019RE

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-09-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: SDG No.: E0019

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 06C02655RE

Sample wt/vol: 5.18 (g/mL) g Lab File ID: SD61R655

Level: (TRACE/LOW/MED) LOW Date Received: 06/01/2006

% Moisture: not dec. 52 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00M0RE

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E0018

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 06302656RE

Sample wt/vol: 5.15 (g/mL) g Lab File ID: SD62R656

Level: (TRACE/LOW/MED) LOW Date Received: 06/01/2006

% Moisture: not dec. 23 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	6.3	U
74-87-3	Chloromethane	6.3	U
75-01-4	Vinyl chloride	6.3	U
74-83-9	Bromomethane	6.3	U
75-00-3	Chloroethane	6.3	U
75-69-4	Trichlorofluoromethane	6.3	U
75-35-4	1,1-Dichloroethene	6.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.3	U
67-64-1	Acetone	23	U
75-15-0	Carbon disulfide	0.87	J
79-20-9	Methyl acetate	6.3	U
75-09-2	Methylene chloride	6.3 0.61	JB U
156-60-5	trans-1,2-Dichloroethene	6.3	U
1634-04-4	Methyl tert-butyl ether	6.3	U
75-34-3	1,1-Dichloroethane	6.3	U
156-59-2	cis-1,2-Dichloroethene	6.3	U
78-93-3	2-Butanone	6.0	J
74-97-5	Bromochloromethane	6.3	U
67-66-3	Chloroform	6.3	U
71-55-6	1,1,1-Trichloroethane	6.3	U
110-82-7	Cyclohexane	6.3	U
56-23-5	Carbon tetrachloride	6.3	U
71-43-2	Benzene	6.3	U
107-06-2	1,2-Dichloroethane	6.3	U
123-91-1	1,4-Dioxane	130	U

RB 11/2/

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00MORE

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E0018

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 06C02636RE

Sample wt/vol: 5.15 (g/mL) g Lab File ID: SD62R656

Level: (TRACE/LOW/MED) LOW Date Received: 06/01/2006

% Moisture: not dec. 23 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	6.3	U
108-87-2	Methylcyclohexane	6.3	U
78-87-5	1,2-Dichloropropane	6.3	U
75-27-4	Bromodichloromethane	6.3	U
10061-01-5	cis-1,3-Dichloropropene	6.3	U
108-10-1	4-Methyl-2-Pentanone	13	U
108-88-3	Toluene	6.3	U
10061-02-6	trans-1,3-Dichloropropene	6.3	U
79-00-5	1,1,2-Trichloroethane	6.3	U
127-18-4	Tetrachloroethene	6.3	U
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	6.3	U
106-93-4	1,2-Dibromoethane	6.3	U
108-90-7	Chlorobenzene	6.3	U
100-41-4	Ethylbenzene	6.3	U
95-47-6	o-Xylene	6.3	U
179601-23-1	m,p-Xylene	6.3	U
100-42-5	Styrene	6.3	U
75-25-2	Bromoform	6.3	U
98-82-8	Isopropylbenzene	6.3	U
79-34-5	1,1,2,2-Tetrachloroethane	6.3	U
541-73-1	1,3-Dichlorobenzene	6.3	U
106-46-7	1,4-Dichlorobenzene	6.3	U
95-50-1	1,2-Dichlorobenzene	6.3	U
96-12-8	1,2-Dibromo-3-chloropropane	6.3	U
120-82-1	1,2,4-Trichlorobenzene	6.3	U
87-61-6	1,2,3-Trichlorobenzene	6.3	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00M0RE

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E00L5

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 06C02656RE

Sample wt/vol: 5.15 (g/mL) g Lab File ID: SD62R656

Level: (TRACE/LOW/MED) LOW Date Received: 06/01/2006

% Moisture: not dec. 23 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966736[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00M1RE

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E00L8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 06C02657RE

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SD63R657

Level: (TRACE/LOW/MED) LOW Date Received: 06/01/2006

% Moisture: not dec. 32 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	7.3	U
74-87-3	Chloromethane	7.3	U
75-01-4	Vinyl chloride	7.3	U
74-83-9	Bromomethane	7.3	U
75-00-3	Chloroethane	7.3	U
75-69-4	Trichlorofluoromethane	7.3	U
75-35-4	1,1-Dichloroethene	7.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.3	U
67-64-1	Acetone	15	U
75-15-0	Carbon disulfide	7.3	U
79-20-9	Methyl acetate	7.3	U
75-09-2	Methylene chloride	7.3 0.65	JB U
156-60-5	trans-1,2-Dichloroethene	7.3	U
1634-04-4	Methyl tert-butyl ether	7.3	U
75-34-3	1,1-Dichloroethane	7.3	U
156-59-2	cis-1,2-Dichloroethene	7.3	U
78-93-3	2-Butanone	15	U
74-97-5	Bromochloromethane	7.3	U
67-66-3	Chloroform	7.3	U
71-55-6	1,1,1-Trichloroethane	7.3	U
110-82-7	Cyclohexane	7.3	U
56-23-5	Carbon tetrachloride	7.3	U
71-43-2	Benzene	7.3	U
107-06-2	1,2-Dichloroethane	7.3	U
123-91-1	1,4-Dioxane	150	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00M1RE

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: SDG No.: E00L8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 06C02657RE

Sample wt/vol: 5.00 (g/ml) g Lab File ID: SD63R657

Level: (TRACE/LOW/MED) LOW Date Received: 06/01/2006

% Moisture: not dec. 32 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	7.3	U
108-87-2	Methylcyclohexane	7.3	U
78-87-5	1,2-Dichloropropane	7.3	U
75-27-4	Bromodichloromethane	7.3	U
10061-01-5	cis-1,3-Dichloropropene	7.3	U
108-10-1	4-Methyl-2-Pentanone	15	U
108-88-3	Toluene	7.3	U
10061-02-6	trans-1,3-Dichloropropene	7.3	U
79-00-5	1,1,2-Trichloroethane	7.3	U
127-18-4	Tetrachloroethene	7.3	U
591-78-6	2-Hexanone	15	U
124-48-1	Dibromochloromethane	7.3	U
106-93-4	1,2-Dibromoethane	7.3	U
108-90-7	Chlorobenzene	7.3	U
100-41-4	Ethylbenzene	7.3	U
95-47-6	o-Xylene	7.3	U
179601-23-1	m,p-Xylene	7.3	U
100-42-5	Styrene	7.3	U
75-25-2	Bromoform	7.3	U
98-82-8	Isopropylbenzene	7.3	U
79-34-5	1,1,2,2-Tetrachloroethane	7.3	U
541-73-1	1,3-Dichlorobenzene	7.3	U
106-46-7	1,4-Dichlorobenzene	7.3	U
95-50-1	1,2-Dichlorobenzene	7.3	U
96-12-8	1,2-Dibromo-3-chloropropane	7.3	U
120-82-1	1,2,4-Trichlorobenzene	7.3	U
87-61-6	1,2,3-Trichlorobenzene	7.3	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00M1RE

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E00L8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 06002657RE

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SD63R657

Level: (TRACE/LOW/MED) LOW Date Received: 06/01/2006

% Moisture: not dec. 32 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00M3RE

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E00L8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 06002658RE

Sample wt/vol: 5.21 (g/mL) g Lab File ID: SD64R658

Level: (TRACE/LOW/MED) LOW Date Received: 06/01/2006

% Moisture: not dec. 34 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	7.3	U
74-87-3	Chloromethane	7.3	U
75-01-4	Vinyl chloride	7.3	U
74-83-9	Bromomethane	7.3	U
75-00-3	Chloroethane	7.3	U
75-69-4	Trichlorofluoromethane	7.3	U
75-35-4	1,1-Dichloroethene	7.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.3	U
67-64-1	Acetone	15	U
75-15-0	Carbon disulfide	7.3	U
79-20-9	Methyl acetate	7.3	U
75-09-2	Methylene chloride	7.3 0.49	JB u
156-60-5	trans-1,2-Dichloroethene	7.3	U
1634-04-4	Methyl tert-butyl ether	7.3	U
75-34-3	1,1-Dichloroethane	7.3	U
156-59-2	cis-1,2-Dichloroethene	7.3	U
78-93-3	2-Butanone	15	U
74-97-5	Bromochloromethane	7.3	U
67-66-3	Chloroform	7.3	U
71-55-6	1,1,1-Trichloroethane	7.3	U
110-82-7	Cyclohexane	7.3	U
56-23-5	Carbon tetrachloride	7.3	U
71-43-2	Benzene	7.3	U
107-06-2	1,2-Dichloroethane	7.3	U
123-91-1	1,4-Dioxane	150	U

RB 7/12

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00M3RE

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-036

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E00L8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 06C02658RE

Sample wt/vol: 5.21 (g/mL) g Lab File ID: SD64R658

Level: (TRACE/LOW/MED) LOW Date Received: 06/01/2006

% Moisture: not dec. 34 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	7.3	U
108-87-2	Methylcyclohexane	7.3	U
78-87-5	1,2-Dichloropropane	7.3	U
75-27-4	Bromodichloromethane	7.3	U
10061-01-5	cis-1,3-Dichloropropene	7.3	U
108-10-1	4-Methyl-2-Pentanone	15	U
108-88-3	Toluene	7.3	U
10061-02-6	trans-1,3-Dichloropropene	7.3	U
79-00-5	1,1,2-Trichloroethane	7.3	U
127-18-4	Tetrachloroethene	7.3	U
591-78-6	2-Hexanone	15	U
124-48-1	Dibromochloromethane	7.3	U
106-93-4	1,2-Dibromoethane	7.3	U
108-90-7	Chlorobenzene	7.3	U
100-41-4	Ethylbenzene	7.3	U
95-47-6	o-Xylene	7.3	U
179601-23-1	m,p-Xylene	7.3	U
100-42-5	Styrene	7.3	U
75-25-2	Bromoform	7.3	U
98-82-8	Isopropylbenzene	7.3	U
79-34-5	1,1,2,2-Tetrachloroethane	7.3	U
541-73-1	1,3-Dichlorobenzene	7.3	U
106-46-7	1,4-Dichlorobenzene	7.3	U
95-50-1	1,2-Dichlorobenzene	7.3	U
96-12-8	1,2-Dibromo-3-chloropropane	7.3	U
120-82-1	1,2,4-Trichlorobenzene	7.3	U
87-61-6	1,2,3-Trichlorobenzene	7.3	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00M3RE

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E0018

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 06022658RE

Sample wt/vol: 5.21 (g/mL) g Lab File ID: SD64R658

Level: (TRACE/LOW/MED) LOW Date Received: 06/01/2006

% Moisture: not dec. 34 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00M4MS

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: SDG No.: E00L8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 06002659MS

Sample wt/vol: 5.00 (g/mL) g Lab File ID: LY14S659

Level: (TRACE/LOW/MED) MED Date Received: 06/01/2006

% Moisture: not dec. 11 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.0 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	310	U
74-87-3	Chloromethane	310	U
75-01-4	Vinyl chloride	310	U
74-83-9	Bromomethane	310	U
75-00-3	Chloroethane	310	U
75-69-4	Trichlorofluoromethane	310	U
75-35-4	1,1-Dichloroethene	3600	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	310	U
67-64-1	Acetone	620	U
75-15-0	Carbon disulfide	310	U
79-20-9	Methyl acetate	310	U
75-09-2	Methylene chloride	310	U
156-60-5	trans-1,2-Dichloroethene	310	U
1634-04-4	Methyl tert-butyl ether	310	U
75-34-3	1,1-Dichloroethane	310	U
156-59-2	cis-1,2-Dichloroethene	310	U
78-93-3	2-Butanone	620	U
74-97-5	Bromochloromethane	310	U
67-66-3	Chloroform	310	U
71-55-6	1,1,1-Trichloroethane	390	
110-82-7	Cyclohexane	310	U
56-23-5	Carbon tetrachloride	310	U
71-43-2	Benzene	3600	
107-06-2	1,2-Dichloroethane	310	U
123-91-1	1,4-Dioxane	6200	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00M4MS

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E00L8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 06C02659MS

Sample wt/vol: 5.00 (g/mL) g Lab File ID: LY24S659

Level: (TRACE/LOW/MED) MED Date Received: 06/01/2006

% Moisture: not dec. 11 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.0 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	3500	
108-87-2	Methylcyclohexane	240	J
78-87-5	1,2-Dichloropropane	310	U
75-27-4	Bromodichloromethane	310	U
10061-01-5	cis-1,3-Dichloropropene	310	U
108-10-1	4-Methyl-2-Pentanone	620	U
108-88-3	Toluene	3500	
10061-02-6	trans-1,3-Dichloropropene	310	U
79-00-5	1,1,2-Trichloroethane	310	U
127-18-4	Tetrachloroethene	1600	
591-78-6	2-Hexanone	620	U
124-48-1	Dibromochloromethane	310	U
106-93-4	1,2-Dibromoethane	310	U
108-90-7	Chlorobenzene	3300	
100-41-4	Ethylbenzene	15	J
95-47-6	o-Xylene	33	J
179601-23-1	m,p-Xylene	48	J
100-42-5	Styrene	310	U
75-25-2	Bromoform	310	U
98-82-8	Isopropylbenzene	24	J
79-34-5	1,1,2,2-Tetrachloroethane	310	U
541-73-1	1,3-Dichlorobenzene	310	U
106-46-7	1,4-Dichlorobenzene	310	U
95-50-1	1,2-Dichlorobenzene	310	U
96-12-8	1,2-Dibromo-3-chloropropane	310	U
120-82-1	1,2,4-Trichlorobenzene	310	U
87-61-6	1,2,3-Trichlorobenzene	310	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00M4MSD

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-09-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E00L8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 06002669MSD

Sample wt/vol: 5.00 (g/mL) g Lab File ID: LY25D659

Level: (TRACE/LOW/MED) MED Date Received: 06/01/2006

% Moisture: not dec. 11 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.0 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	310	U
74-87-3	Chloromethane	310	U
75-01-4	Vinyl chloride	310	U
74-83-9	Bromomethane	310	U
75-00-3	Chloroethane	310	U
75-69-4	Trichlorofluoromethane	310	U
75-35-4	1,1-Dichloroethene	3600	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	310	U
67-64-1	Acetone	620	U
75-15-0	Carbon disulfide	310	U
79-20-9	Methyl acetate	310	U
75-09-2	Methylene chloride	310	U
156-60-5	trans-1,2-Dichloroethene	310	U
1634-04-4	Methyl tert-butyl ether	310	U
75-34-3	1,1-Dichloroethane	310	U
156-59-2	cis-1,2-Dichloroethene	310	U
78-93-3	2-Butanone	620	U
74-97-5	Bromochloromethane	310	U
67-66-3	Chloroform	310	U
71-55-6	1,1,1-Trichloroethane	380	
110-82-7	Cyclohexane	310	U
56-23-5	Carbon tetrachloride	310	U
71-43-2	Benzene	3600	
107-06-2	1,2-Dichloroethane	310	U
123-91-1	1,4-Dioxane	6200	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00M4MSD

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: SDG No.: E00L8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 06C02658MSD

Sample wt/vol: 5.00 (g/mL) g Lab File ID: LY25D658

Level: (TRACE/LOW/MED) MED Date Received: 06/01/2006

% Moisture: not dec. 11 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.0 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	3400	
108-87-2	Methylcyclohexane	240	J
78-87-5	1,2-Dichloropropane	310	U
75-27-4	Bromodichloromethane	310	U
10061-01-5	cis-1,3-Dichloropropene	310	U
108-10-1	4-Methyl-2-Pentanone	620	U
108-88-3	Toluene	3300	
10061-02-6	trans-1,3-Dichloropropene	310	U
79-00-5	1,1,2-Trichloroethane	310	U
127-18-4	Tetrachloroethene	1600	
591-78-6	2-Hexanone	620	U
124-48-1	Dibromochloromethane	310	U
106-93-4	1,2-Dibromoethane	310	U
108-90-7	Chlorobenzene	3200	
100-41-4	Ethylbenzene	13	J
95-47-6	o-Xylene	30	J
179601-23-1	m,p-Xylene	49	J
100-42-5	Styrene	310	U
75-25-2	Bromoform	310	U
98-82-8	Isopropylbenzene	22	J
79-34-5	1,1,2,2-Tetrachloroethane	310	U
541-73-1	1,3-Dichlorobenzene	310	U
106-46-7	1,4-Dichlorobenzene	310	U
95-50-1	1,2-Dichlorobenzene	310	U
96-12-8	1,2-Dibromo-3-chloropropane	310	U
120-82-1	1,2,4-Trichlorobenzene	310	U
87-61-6	1,2,3-Trichlorobenzene	310	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00M5MS

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: SDG No.: E00L8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 06C02660MS

Sample wt/vol: 5.11 (g/mL) g Lab File ID: SD66S660

Level: (TRACE/LOW/MED) LOW Date Received: 06/01/2006

% Moisture: not dec. 26 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	6.6	U
74-87-3	Chloromethane	6.6	U
75-01-4	Vinyl chloride	6.6	U
74-83-9	Bromomethane	6.6	U
75-00-3	Chloroethane	6.6	U
75-69-4	Trichlorofluoromethane	0.67	J
75-35-4	1,1-Dichloroethene	81	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.6	U
67-64-1	Acetone	13	U
75-15-0	Carbon disulfide	6.6	U
79-20-9	Methyl acetate	6.6	U
75-09-2	Methylene chloride	6.6	U
156-60-5	trans-1,2-Dichloroethene	6.6	U
1634-04-4	Methyl tert-butyl ether	6.6	U
75-34-3	1,1-Dichloroethane	6.6	U
156-59-2	cis-1,2-Dichloroethene	6.6	U
78-93-3	2-Butanone	13	U
74-97-5	Bromochloromethane	6.6	U
67-66-3	Chloroform	6.6	U
71-55-6	1,1,1-Trichloroethane	6.6	U
110-82-7	Cyclohexane	6.6	U
56-23-5	Carbon tetrachloride	6.6	U
71-43-2	Benzene	120	
107-06-2	1,2-Dichloroethane	6.6	U
123-91-1	1,4-Dioxane	130	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00M5MS

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E00L8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 06C02660MS

Sample wt/vol: 5.11 (g/mL) g Lab File ID: SD66S660

Level: (TRACE/LOW/MED) LOW Date Received: 06/01/2006

% Moisture: not dec. 26 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	110	
108-87-2	Methylcyclohexane	6.6	U
78-87-5	1,2-Dichloropropane	6.6	U
75-27-4	Bromodichloromethane	6.6	U
10061-01-5	cis-1,3-Dichloropropene	6.6	U
108-10-1	4-Methyl-2-Pentanone	13	U
108-88-3	Toluene	96	B
10061-02-6	trans-1,3-Dichloropropene	6.6	U
79-00-5	1,1,2-Trichloroethane	6.6	U
127-18-4	Tetrachloroethene	6.6	U
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	6.6	U
106-93-4	1,2-Dibromoethane	6.6	U
108-90-7	Chlorobenzene	84	
100-41-4	Ethylbenzene	6.6	U
95-47-6	o-Xylene	6.6	U
179601-23-1	m,p-Xylene	6.6	U
100-42-5	Styrene	6.6	U
75-25-2	Bromoform	6.6	U
98-82-8	Isopropylbenzene	6.6	U
79-34-5	1,1,2,2-Tetrachloroethane	6.6	U
541-73-1	1,3-Dichlorobenzene	6.6	U
106-46-7	1,4-Dichlorobenzene	6.6	U
95-50-1	1,2-Dichlorobenzene	6.6	U
96-12-8	1,2-Dibromo-3-chloropropane	6.6	U
120-82-1	1,2,4-Trichlorobenzene	6.6	U
87-61-6	1,2,3-Trichlorobenzene	6.6	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00M5MSD

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E00L8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 06002660MSD

Sample wt/vol: 4.86 (g/mL) g Lab File ID: SD67D660

Level: (TRACE/LOW/MED) LOW Date Received: 06/01/2006

% Moisture: not dec. 26 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	7.0	U
74-87-3	Chloromethane	7.0	U
75-01-4	Vinyl chloride	7.0	U
74-83-9	Bromomethane	7.0	U
75-00-3	Chloroethane	7.0	U
75-69-4	Trichlorofluoromethane	7.0	U
75-35-4	1,1-Dichloroethene	84	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.0	U
67-64-1	Acetone	14	U
75-15-0	Carbon disulfide	7.0	U
79-20-9	Methyl acetate	7.0	U
75-09-2	Methylene chloride	7.0 0.45	JB
156-60-5	trans-1,2-Dichloroethene	7.0	U
1634-04-4	Methyl tert-butyl ether	7.0	U
75-34-3	1,1-Dichloroethane	7.0	U
156-59-2	cis-1,2-Dichloroethene	7.0	U
78-93-3	2-Butanone	14	U
74-97-5	Bromochloromethane	7.0	U
67-66-3	Chloroform	7.0	U
71-55-6	1,1,1-Trichloroethane	7.0	U
110-82-7	Cyclohexane	7.0	U
56-23-5	Carbon tetrachloride	7.0	U
71-43-2	Benzene	120	
107-06-2	1,2-Dichloroethane	7.0	U
123-91-1	1,4-Dioxane	140	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00M5MSD

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E0018

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 06C02660MSD

Sample wt/vol: 4.86 (g/mL) g Lab File ID: S167D660

Level: (TRACE/LOW/MED) LOW Date Received: 06/01/2006

% Moisture: not dec. 26 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	120	
108-87-2	Methylcyclohexane	7.0	U
78-87-5	1,2-Dichloropropane	7.0	U
75-27-4	Bromodichloromethane	7.0	U
10061-01-5	cis-1,3-Dichloropropene	7.0	U
108-10-1	4-Methyl-2-Pentanone	14	U
108-88-3	Toluene	99	B
10061-02-6	trans-1,3-Dichloropropene	7.0	U
79-00-5	1,1,2-Trichloroethane	7.0	U
127-18-4	Tetrachloroethene	7.0	U
591-78-6	2-Hexanone	14	U
124-48-1	Dibromochloromethane	7.0	U
106-93-4	1,2-Dibromoethane	7.0	U
108-90-7	Chlorobenzene	86	
100-41-4	Ethylbenzene	7.0	U
95-47-6	o-Xylene	7.0	U
179601-23-1	m,p-Xylene	7.0	U
100-42-5	Styrene	7.0	U
75-25-2	Bromoform	7.0	U
98-82-8	Isopropylbenzene	7.0	U
79-34-5	1,1,2,2-Tetrachloroethane	7.0	U
541-73-1	1,3-Dichlorobenzene	7.0	U
106-46-7	1,4-Dichlorobenzene	7.0	U
95-50-1	1,2-Dichlorobenzene	7.0	U
96-12-8	1,2-Dibromo-3-chloropropane	7.0	U
120-82-1	1,2,4-Trichlorobenzene	7.0	U
87-61-6	1,2,3-Trichlorobenzene	7.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK01

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E00L8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: BL-246141-2

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SD68HBLK

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	4.5	J
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0 0.34	JB u
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

RB

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK01

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E00L8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: BL-246141-2

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SD68HBLK

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	5.0 0.29	JB U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK01

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E00L8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: BL-246141-2

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SD68HBLK

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK02

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E00L8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: BL-246141-4

Sample wt/vol: 5.00 (g/mL) g Lab File ID: LY26HBLK

Level: (TRACE/LOW/MED) MED Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.0 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	250	U
74-87-3	Chloromethane	250	U
75-01-4	Vinyl chloride	250	U
74-83-9	Bromomethane	250	U
75-00-3	Chloroethane	250	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	250	U
67-64-1	Acetone	500	U
75-15-0	Carbon disulfide	250	U
79-20-9	Methyl acetate	250	U
75-09-2	Methylene chloride	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-34-3	1,1-Dichloroethane	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
78-93-3	2-Butanone	500	U
74-97-5	Bromochloromethane	250	U
67-66-3	Chloroform	250	U
71-55-6	1,1,1-Trichloroethane	250	U
110-82-7	Cyclohexane	250	U
56-23-5	Carbon tetrachloride	250	U
71-43-2	Benzene	250	U
107-06-2	1,2-Dichloroethane	250	U
123-91-1	1,4-Dioxane	5000	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK02

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E00L8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: BL-246141-4

Sample wt/vol: 5.00 (g/mL) g Lab File ID: LY26HBLK

Level: (TRACE/LOW/MED) MED Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.0 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	250	U
108-87-2	Methylcyclohexane	250	U
78-87-5	1,2-Dichloropropane	250	U
75-27-4	Bromodichloromethane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-Pentanone	500	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	500	U
124-48-1	Dibromochloromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	250	U
95-47-6	o-Xylene	250	U
179601-23-1	m,p-Xylene	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U
87-61-6	1,2,3-Trichlorobenzene	250	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK02

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E00L8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: BL-246141-4

Sample wt/vol: 5.00 (g/mL) g Lab File ID: LY26HBLK

Level: (TRACE/LOW/MED) MED Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.0 (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35383 Mod. Ref No.: _____ SDG No.: E0CL8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: BL-246141-1

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SD59BLK

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	0.35	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E00L8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: BL-246141-1

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SD59BLK

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	0.21	J
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK01

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E00L8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: BL-246141-1

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SD59BLK

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: SDG No.: E00L8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: BL-246141-3

Sample wt/vol: 5.00 (g/mL) g Lab File ID: LY22BLK

Level: (TRACE/LOW/MED) MED Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.0 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	250	U
74-87-3	Chloromethane	250	U
75-01-4	Vinyl chloride	250	U
74-83-9	Bromomethane	250	U
75-00-3	Chloroethane	250	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	250	U
67-64-1	Acetone	500	U
75-15-0	Carbon disulfide	250	U
79-20-9	Methyl acetate	250	U
75-09-2	Methylene chloride	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-34-3	1,1-Dichloroethane	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
78-93-3	2-Butanone	500	U
74-97-5	Bromochloromethane	250	U
67-66-3	Chloroform	250	U
71-55-6	1,1,1-Trichloroethane	250	U
110-82-7	Cyclohexane	250	U
56-23-5	Carbon tetrachloride	250	U
71-43-2	Benzene	250	U
107-06-2	1,2-Dichloroethane	250	U
123-91-1	1,4-Dioxane	5000	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E0CL8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: BL-246141-3

Sample wt/vol: 5.00 (g/mL) g Lab File ID: LY22BLK

Level: (TRACE/LOW/MED) MED Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.0 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	250	U
108-87-2	Methylcyclohexane	250	U
78-87-5	1,2-Dichloropropane	250	U
75-27-4	Bromodichloromethane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-Pentanone	500	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	500	U
124-48-1	Dibromochloromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	250	U
95-47-6	o-Xylene	250	U
179601-23-1	m,p-Xylene	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	27	J
87-61-6	1,2,3-Trichlorobenzene	35	J

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK02

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 35393 Mod. Ref No.: _____ SDG No.: E00L8

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: BL-246141-3

Sample wt/vol: 5.00 (g/mL) g Lab File ID: LY22BLK

Level: (TRACE/LOW/MED) MED Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 06/07/2006

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.0 (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: ECOL8 CERCLIS No: ILD 980794929

Case No: 35383 Site Name/Location: DUNAVAN Oil (IL)

Contractor or EPA Lab: DATA Chem Data User: IEPA

No. of Samples: 7 Date Sampled or Date Received: 6/26/06

Have Chain-of-Custody records been received? Yes X No_____
Have traffic reports or packing lists been received? Yes X No _____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes _____ No _____
If no, which traffic report or packing list numbers are missing?

_____ _____ _____ _____
_____ _____ _____ _____

Are basic data forms in? Yes X No_____
No of samples claimed: _____ No. of samples received: _____

Received by: Adaurajohnson Date: 6/26/06

Received by LSSS: Adaurajohnson Date: 6/26/06

Review started: 12 July 2006 Reviewer Signature: Richard A. Bates

Total time spent on review: 9.5 Date review completed: 13 July 2006

Copied by: Adaurajohnson Date: 24 July 06

Mailed to user by: Adaurajohnson Date: 25 July 06

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

Inorganic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

_____

_____

Received by Data Mgmt. Coordinator for Files. Date: _____

DATE: July 25, 2006

IEPA
Attn: Mr. Bob Casper
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

SITE NAME: Dunavan Oil (IL)

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
35229	Envirosystems	8	E0011	water

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: **U.S. EPA - Region 5**
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat Johnson
Data Coordinator
ESAT Region 5 **TechLaw**

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: June 14, 2006

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

for Steve Ostrodka
Richard L Byrnil
7/21/06

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE Name: Dunavan Oil (IL)

Case Number: 35229 SDG Number: E0011

Number and Type of Samples: 8 (Water) (Pesticide and Aroclors)

Sample Numbers: E0010, E0011, E0020, E0022 through E0025 and E0035

Laboratory: Envirosystems Inc. Hrs for Review:

Following are our findings:

the data are usable and acceptable with the qualifications described in the attached narrative.
Richard L Byrnil

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0011
Laboratory: Envirosystems

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Eight (8) water samples, numbered E0010, E0011, E0020, E0022 through E0025 and E0035 were collected on April 5, 11 to 13, 2006. The lab received the samples on April 13 and 14, 2006 in good condition except for sample E0024. Sample E0024 had one (1) broken bottle upon receipt. The samples were analyzed for Pesticide and Aroclor lists of organic analytes. All samples were analyzed according to CLP SOW SOM01.1 (5/2005). The samples were validated according to USEPA CLP National Functional Guidelines for Superfund Organic Methods Data Review (1/2005) and Region 5 Data Review Guidelines.

Sample E0022 is identified as a Field Blank.

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0011
Laboratory: Envirosystems

1. HOLDING TIME

The following Pesticide sample was beyond the maximum holding time of seven (7) days and less than 14 days from sample collection to extraction. The results are qualified "J" and non-detects are qualified "UJ" or "R" for poor LCS recoveries.

E0025

The following Aroclor samples were beyond the maximum holding time of seven (7) days and less than 14 days from sample collection to extraction. The results are qualified "J" and non-detects are qualified "UJ".

E0010, E0011, E0025

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No defects were found.

3. CALIBRATION

The following Pesticide samples are associated with an initial calibration with percent relative standard deviation (RSD) outside primary criteria (<20%). Hits were not reported for the samples. Non-detects are qualified "UJ".

Methoxychlor
E0020MSD, E0022

The following Pesticide samples are associated with the PEM continuing calibration whose corresponding initial calibration has a percent difference (%D) outside primary criteria (25.0%). Hits were not reported for the samples except E0025. The presence of beta-BHC in sample E0025 is qualified "J". All non-detects are qualified "UJ" except E0024 is qualified "R" for poor surrogate recovery.

Beta-BHC
E0010, E0011, E0020, E0020MS, E0023, E0024, E0025, E0035, PBLK17, PBLK18, PLCS18

The following pesticide samples have an INDA/INDB that exceeded the QC criteria (±20%) for the closing CCV. Hits were not reported for the samples. All non-detects are qualified "UJ" except E0024 is qualified "R" for poor surrogate recovery.

Alpha-BHC, Beta-BHC, delta-BHC, Heptachlor epoxide, 4,4'-DDE
E0010, E0011, E0020, E0020MS, E0023, E0024, E0025, E0035, PBLK17, PBLK18,

PLCS18

The following pesticide samples have an INDA/INDB that exceeded the QC criteria (±20%) for the closing CCV. Hits were not reported for the samples. All non-detects are qualified "R" because of poor recoveries on the Laboratory Control Sample.

Gamma-BHC (Lindane)
E0010, E0011, E0020, E0020MS, E0023, E0024, E0025, E0035, PBLK17, PBLK18, PLCS18

The following Pesticide samples have INDA/INDB percent difference (%D) outside the primary criteria (±20%) for both surrogates (TCX and DCB). No action is taken.

Tetrachloro-m-xylene (TCX), Decachlorobiphenyl (DCB)
E0010, E0011, E0020, E0020MS, E0023, E0024, E0025, E0035, PBLK17, PBLK18, PLCS18

The following Pesticide samples are associated with a continuing calibration whose corresponding initial calibration PEM has percent difference (%D) outside primary criteria (±25%). No action is taken.

Decachlorobiphenyl (DCB)
E0010, E0011, E0020, E0020MS, E0023, E0024, E0025, E0035, PBLK17, PBLK18, PLCS18

The following Aroclors samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria (±20%). Hits are qualified "J" and non-detects are flagged "UJ"

Aroclor 1268
E0010, E0011, E0020, E0020MS, E0020MSD, E0022, E0023, E0024, E0025, E0035, ABLK15, ABLK16, ALCS15, ACLS16

The following Aroclor samples are associated with opening calibrations whose percent difference (%D) is outside primary criteria (±15%). Hits are qualified "J" and non-detects are qualified "UJ".

Aroclor 1016, Aroclor 1260
E0010, E0011, E0020, E0020MS, E0020MSD, E0022, E0023, E0024, E0025, E0035, ABLK15, ABLK16, ALCS15, ACLS16

The following Aroclors samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria for surrogate DCB (20%). No action is taken.

Decachlorobiphenyl (DCB)
E0010, E0011, E0020, E0020MS, E0020MSD, E0022, E0023, E0024, E0025, E0035, ABLK15, ABLK16, ALCS15, ACLS16

4. BLANKS

The following Pesticide samples contain a concentrations reported below the CRQL and less than to the associated Method Blank CRQL concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not qualified, except for E0024 non-detect is qualified "R" for poor surrogate recovery.

E0010, E0011, E0020, E0020MS, E0020MSD, E0024, E0035, PLCS18
Gamma-Chlordane

The following Pesticide samples have analyte concentrations reported at or above the CRQL and less than ten times (10X) method blank concentration. The reported sample concentration value is qualified as a non-detect and ultimately qualified "UJ" because of holding time.

E0025
Gamma-Chlordane

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The following Pesticide sample has surrogate recovery below the QC limits (30-150%) and greater than 10%. Hits were not reported for the sample. Non-detects are qualified "UJ".

E0022

The following Pesticide sample has surrogate recovery below the QC limits (30-150%) and less than 10%. Hits were not reported for the sample. Non-detects are qualified "R".

E0024

The following Aroclor sample has surrogate recoveries below QC criteria (30-150%) and greater than 10%. Hits were not reported for the sample. Non-detects are qualified "UJ".

E0022, ABLK15, ALCS15, ALCS16

6A. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The relative percent difference (RPD) between the following Aroclor matrix spike and matrix spike duplicate recoveries is outside criteria.

E0020MS, E0020MSD
Aroclor 1016

The following Aroclor sample has a recovery above the QC criteria and greater than 100%.

E0020MSD
Aroclor 1016

Aroclor 1016 was not reported in the unspiked sample E0020. Non-detect is qualified "UJ".

6B. LABORATORY CONTROL SAMPLE

The following Pesticide samples have recoveries below the QC criteria. The presence of gamma-BHC (Lindane), Heptachlor, Aldrin, Dieldrin and Endrin in the samples are qualified "J" and non-detects are qualified "R".

Gamma-BHC (Lindane), Heptachlor, Aldrin, Dieldrin, Endrin
E0010, E0011, E0020, E0020MS, E0023, E0024, E0025, E0035, PBLK17, PBLK18

7. FIELD BLANK AND FIELD DUPLICATE

Sample E0022 is identified as a Field Blank. Sample E0022 reported no target compounds on Form 1. Raw data shows that the laboratory should of reported delta-BHC, Heptachlor, gamma-Chlordane, 4,4'-DDD and 4,4'-DDT as detects. There are no Field Duplicates in this package. Results are not qualified based upon the results of the field duplicates.

8. INTERNAL STANDARDS

Internal Standards are not applicable to this package.

9. COMPOUND IDENTIFICATION

After reviewing the chromatograms it appears that all Pesticide and Aroclor compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following Pesticide samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E0010
Methoxychlor

E0011, E0020MSD
4,4'-DDD

E0020
4,4'-DDT

E0020MS
4,4'-DDD, Endrin ketone

E0025
Beta-BHC

PBLK17, PBLK18
Gamma-Chlordane

PLCS18
Gamma-BHC (Lindane), Heptachlor epoxide, Dieldrin, 4,4'-DDE, Endrin, Endosulfan sulfate, 4,4'-DDT

The following Pesticide samples have an analytes for which the percent difference between column results exceeds primary criteria of 25%. Positive result is qualified "J".

E0011
4,4'-DDD

E0020MS
Aldrin, 4,4'-DDD

E0023, PBLK17
Gamma-Chlordane

E0025
Beta-BHC

PLCS18
Heptachlor epoxide, Dieldrin, Endrin

The following Aroclor sample has analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E0020MS, E0020MSD, ALCS15, ACLS16
Aroclor 1260

The following Aroclor samples have an analytes for which the percent difference between column results exceeds primary criteria of 25%. Positive result is qualified "J".

E0020MS, ALCS15
Aroclor 1260

E0020MSD
Aroclor 1016, Aroclor 1260

11. SYSTEM PERFORMANCE

The GC baseline for the pesticide and Aroclor analysis was acceptable.

12. ADDITIONAL INFORMATION

The laboratory reported all the target compounds for Pesticide sample E0022 as non-detects. In reviewing the raw data the following compounds should have been reported as detects: delta-BHC, Heptachlor, gamma-Chlordane, 4,4'-DDD and 4,4'-DDT. Enclosed are a hard copy of the Form 1 and the raw data for sample E0022. All the samples with this SDG were extracted on April 18, 2006 except E0020MSD and E0022. Samples E0020MSD and E0022 was extracted on April 19, 2006 with a different Method Blank and Laboratory Control Sample that are not part of this package.

The laboratory did not supply Performance Evaluation Mixture (Form 6 Pest-6), Individual Standard Mixture (Form 7 Pest-7 INDA/INDB), Pesticide Calibration Verification Summary (Form 7 Pest-1) and Pesticide Calibration Verification Summary (Form 7 Pest-2) for the analysis done on May 2, 2006, but Pesticide Initial Calibration (Form 6 Pest-1) is included with this package. The following samples have insufficient information, E0022 and E0020MSD for a complete review.

The initial calibration was done on May 1 and 2, 2006 for E0020MSD and E0022. The laboratory did do the opening and closing calibration, but the raw data is not included with this package.

According to the SOW Method SOM01.1 (5/2005) section 7 page D-19/ Pesticide the Laboratory Control Sample (LCS) spiking solution contains the following compounds: gamma-BHC (Lindane), gamma-Chlordane, Heptachlor epoxide, Dieldrin, 4,4'-DDE, Endrin and Endosulfan sulfate. As per Laboratory narrative they inadvertently used the MS spiking solution. The MS spiking solution contains: gamma-BHC (Lindane), Heptachlor, Aldrin, Dieldrin, Endrin and 4,4'-DDT.

The following Pesticide samples have analyte detections "false positive" and is flagged by the laboratory as "P". Region 5 protocol is that whenever the "P" value is less than 25% of the CRQL the value is elevated to the CRQL and qualified "U".

E0010
4,4'-DDT

E0011, E0035
4,4'-DDT, Methoxychlor

E0020
4,4'-DDD, Methoxychlor

E0020MSD
Delta-BHC, 4,4'-DDE, Methoxychlor, Endrin ketone, Endrin aldehyde

E0023
4,4'-DDD

PBLK18
4,4'-DDE, 4,4'-DDD, 4,4'-DDT

PLCS18
4,4'-DDD, Methoxychlor

The following Pesticide sample have analyte detections "false positive" and is flagged by the laboratory as "P". Region 5 protocol is that whenever the "P" value is less than 25% of the CRQL the value is elevated to the CRQL and qualified "UJ" because of holding time.

E0025
Endosulfan II, 4,4'-DDD, 4,4'-DDT

The following Pesticide sample have analyte detections "false positive" and is flagged by the laboratory as "P". Region 5 protocol is that whenever the "P" value is less than 25% of the CRQL the value is elevated to the CRQL and qualified "R" because poor LCS recoveries.

E0023, E0025
Gamma-BHC (Lindane)

The following Pesticide sample has analyte detection "false positive" and is flagged by the laboratory as "P". Region 5 protocol is that whenever the "P" value is less than 25% of the CRQL the value is elevated to the CRQL and qualified "R" because of poor

surrogate recovery.

E0024
Methoxychlor, gamma-Chlordane

The following Aroclor surrogate recovery for the Method Blank ABLK15 was reported out of specification, namely (DCB) Decachlorobiphenyl. Since the other Method Blank (ABLK16) and 9 samples are within specifications this maybe an isolated problem with the blank alone or as Per section V.E.6 (page 218 Aroclor Organic Analysis) of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods (1/2005). This situation should be related to the Contract Laboratory Program Project Officer (CLP PO).

CADRE did not provide the results in electronic spreadsheet for the following samples. The end user should refer to the enclosed hard copied of Form 1's for the results.

Pesticide fraction
E0020MS, E0020MSD, PBLK17, PBLK18, PCLS18

Aroclor fraction
E0020MS, E0020MSD, ABLK15, ABLK16, ALCS16, ALCS16

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present.)

Analytical Results (Qualified Data)

Case # 35229 SDG : E0011
Site DUNAVAN OIL
Lab ENVSYS
Reviewer
Date :

Number of Soil Samples : 0
Number of Water Samples 8
Number of Sediment Samples 0

Sample Number	E0010		E0011		E0020		E0022		E0023	
Sampling Location	G101		G102		G103		FIELD BLANK		G104	
Matrix	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/17/2006		4/14/2006		4/14/2006		4/12/2006		4/12/2006	
Time Sampled :										
%Moisture	0		0		0		0		0	
pH :										
Dilution Factor	1.0		1.0		1.0		1.0		1.0	
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050	UJ	0.050	UJ	0.050	UJ	0.050	UJ	0.050	UJ
beta-BHC	0.050	UJ	0.050	UJ	0.050	UJ	0.050	UJ	0.050	UJ
delta-BHC	0.050	UJ	0.050	UJ	0.050	UJ	0.050	UJ	0.050	UJ
gamma-BHC (Lindane)	0.050	R	0.050	R	0.050	R	0.050	UJ	0.050	R
Heptachlor	0.050	R	0.050	R	0.050	R	0.050	UJ	0.050	R
Aldrin	0.050	R	0.050	R	0.050	R	0.050	UJ	0.050	R
Heptachlor epoxide	0.050	UJ			0.050	UJ	0.050	UJ	0.050	UJ
Endosulfan I	0.050	U	0.050	U	0.050	U	0.050	UJ	0.050	U
Dieldrin	0.10	R	0.10		0.10	R	0.10	UJ	0.10	R
4,4'-DDE	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
Endrin	0.10	R	0.10	R	0.10	R	0.10	UJ	0.10	R
Endosulfan II	0.10	U	0.10	U	0.10	U	0.10	UJ	0.10	U
4,4'-DDD	0.10	U	0.027	J	0.10	U	0.10	UJ	0.10	U
Endosulfan sulfate	0.10	U	0.10	U	0.10	U	0.10	UJ	0.10	U
4,4'-DDT	0.10	U	0.10	U	0.021	J	0.10	UJ	0.10	U
Methoxychlor	0.036	J	0.50	U	0.50	U	0.50	UJ	0.50	U
Endrin ketone	0.10	U	0.10	U	0.10	U	0.10	UJ	0.10	U
Endrin aldehyde	0.10	U	0.10	U	0.10	U	0.10	UJ	0.10	U
alpha-Chlordane	0.050	U	0.050		0.050	U	0.050	UJ	0.050	U
gamma-Chlordane	0.050	U	0.050	U	0.050	U	0.050	UJ	0.23	J
Toxaphene	5.0	U	5.0	U	5.0	U	5.0	UJ	5.0	U

Analytical Results (Qualified Data)

Case #: 35229 SDG : E0011
Site DUNAVAN OIL
ab ENVSYS
eviewer :
Date

Sample Number	E0024		E0025		E0035					
Sampling Location	G189		G106		G106					
Matrix	Water		Water		Water					
Units :	ug/L		ug/L		ug/L					
Date Sampled	4/12/2006		4/5/2006		4/13/2006					
Time Sampled :										
%Moisture	0		0		0					
pH :										
Dilution Factor	1.0		1.0		1.0					
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050	R	0.050	[illegible]	0.050	UJ				
beta-BHC	0.050	R	0.013	J	0.050	UJ				
delta-BHC	0.050	R	0.050	UJ	0.050	UJ				
gamma-BHC (Lindane)	0.050	R	0.050	R	0.050	R				
Heptachlor	0.050	R	0.050	UR	0.050	R				
Aldrin	0.050	R	0.050	R	0.050	R				
Heptachlor epoxide	0.050	R	0.050	UJ	0.050	UJ				
Endosulfan I	0.050	R	0.050	UJ	0.050	U				
Dieldrin	0.10	R	0.10	UR	0.10	R				
4,4'-DDE	0.10	R	0.10	UJ	0.10	UJ				
Endrin	0.10	R	[illegible]	[illegible]	0.10	R				
Endosulfan II	0.10	R	0.10	UJ	0.10	U				
4,4'-DDD	0.10	R	0.10	[illegible]	0.10	U				
Endosulfan sulfate	0.10	R	0.10	UJ	0.10	U				
4,4'-DDT	0.10	R	0.10	UJ	0.10	U				
Methoxychlor	0.50	R	0.50	UJ	0.50	U				
Endrin ketone	0.10	R	0.10	UJ	0.10	U				
Endrin aldehyde	0.10	R	0.10	UJ	0.10	U				
alpha-Chlordane	0.050	R	0.050	UJ	0.050	U				
gamma-Chlordane	0.050	R	0.17	UJ	0.050	U				
Toxaphene	5.0	R	5.0	UJ	5.0	U				

Analytical Results (Qualified Data)

Case #. 35229 SDG E0011
Site : DUNAVAN OIL
Lab. : ENVSYS
Reviewer :
Date :

Number of Soil Samples : 0
Number of Water Samples 8
Number of Sediment Samples 0

Sample Number :	E0010		E0011		E0020		E0022		E0023	
Sampling Location	G101		G102		G103		FIELD BLANK		G104	
Matrix .	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/17/2006		4/14/2006		4/14/2006		4/12/2006		4/12/2006	
Time Sampled										
%Moisture .	0		0		0		0		0	
pH :										
Dilution Factor :	1 0		1 0		1 0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	1.0	UJ	1.0	UJ	1.0	UJ	1.0	UJ	1.0	UJ
Aroclor-1221	1 0	UJ	1.0	UJ	1 0	U	1.0	UJ	1.0	U
Aroclor-1232	1.0	UJ	[illegible]	[illegible]	1.0	U	1.0	UJ	1.0	U
Aroclor-1242	1.0	UJ	1.0	UJ	1 0	U	1.0	UJ	1.0	U
Aroclor-1248	1.0	UJ	[illegible]	[illegible]	1.0	U	1.0	UJ	1.0	U
Aroclor-1254	1.0	UJ	1.0	UJ	1.0	U	1 0	UJ	1 0	U
Aroclor-1260	1.0	UJ	1.0	UJ	1.0	UJ	1.0	UJ	1.0	UJ
Aroclor-1262	1 0	UJ	1.0	UJ	1 0	U	1.0	UJ	1 0	U
Aroclor-1268	1.0	UJ	1.0	UJ	1.0	UJ	1.0	UJ	1.0	UJ

Analytical Results (Qualified Data)

Case # 35229 SDG : E0011
Site DUNAVAN OIL
Lab ENVSYS
Reviewer :
Date :

Sample Number :	E0024		E0025		E0035					
Sampling Location :	G189		G106		G106					
Matrix :	Water		Water		Water					
Units	ug/L		ug/L		ug/L					
Date Sampled	4/12/2006		4/5/2006		4/13/2006					
Time Sampled :										
%Moisture :	0		0		0					
pH :										
Dilution Factor :	1.0		1.0		1.0					
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	1.0	UJ	1.0	UJ	1.0	UJ				
Aroclor-1221	1.0	U	1.0	UJ	1.0	U				
Aroclor-1232	1.0	U	1.0	UJ	1.0	U				
Aroclor-1242	1.0	U	1.0	UJ	1.0	U				
Aroclor-1248	1.0	U	1.0	UJ	1.0	U				
Aroclor-1254	1.0	U	1.0	UJ	1.0	U				
Aroclor-1260	1.0	UJ	1.0	UJ	1.0	UJ				
Aroclor-1262	1.0	U	1.0	UJ	1.0	U				
Aroclor-1268	1.0	UJ	1.0	UJ	1.0	UJ				

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 4/14/06

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: DUNAVAN Oil (IL)

CASE NUMBER: 35329 SDG NUMBER: E0011

Number and Type of Samples: 10 water samples

Sample Numbers: E0010 – E0011; 13; 20; 22 – 26; 35

Laboratory: ENVIROSystems Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Contract Laboratory Program

Sample Delivery Group (SDG) Cover Sheet

SDG Number E0010 1 MS 6/9/06

Laboratory Name ENVIROSYSTEMS, INC Laboratory Code ENVSYS

Contract No. EP-W-05-033 Case No. 35229

Analysis Price _____ SDG Turnaround 21 DAYS

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E0010	7) E0024	13)	19)
2) E0011	8) E0025	14)	20)
3) E0013	9) E0026	15)	21)
4) E0020	10) E0035	16)	22)
5) E0022	11)	17)	23)
6) E0023	12)	18)	24)

PL 4/18/06 PL 4/15/06 PL 4/18/06

E0010
First Sample in SDG

E0035
Last Sample in SDG

4/13/06
First Sample Receipt Date

4/14/06
Last Sample Receipt Date

Note: There are a maximum of 20 field samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).

Signature Paul Lerk Date 4/18/06

Organic Traffic Report & Chain of Custody Record

DAS No:
SDG No:
L

Date Shipped:	4/12/2006	**Chain of Custody Record**	Sampler Signature:	**For Lab Use Only**	
Carrier Name:	UPS	Relinquished By (Date / Time)	Received By (Date / Time)	Lab Contract No:	EPW05033
Airbill:	1Z6215892210024124	1 Tony Wurlin 4/12/06 1735	Barbara Crook 4/13/06 10:30	Unit Price:	90000
Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330	2		Transfer To:	
		3		Lab Contract No:	
		4		Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0010	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	304188 (HCL), 304189 (HCL), 304190 (HCL), 304191 (HCL), 304192 (HCL), 304193, 304194 (12)	G101	S: 4/11/2006 16:45	ME0010	
E0011	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263353 (HCL), 263354 (HCL), 263355 (HCL), 263356 (HCL), 263357 (HCL), 263358, 263359 (12)	G102	S: 4/11/2006 17:25	ME0011	
E0013	Potable Well/ Lance Range	L/G	CLP TVOA (21), CLP TVSIM (21)	304198 (HCL), 304199 (HCL) (4)	Trip Blank 1	S: 4/5/2006 10:00		
E0014	Soil/Sediment/ Lance Range	L/G	VOA (21)	304200 (1)	X110	S: 4/5/2006 8:50	ME0014	
E0015	Soil/Sediment/ Lance Range	L/G	VOA (21)	263368 (1)	X111	S: 4/5/2006 9:50	ME0015	
E0016	Soil/Sediment/ Lance Range	L/G	VOA (21)	263372 (1)	X112	S: 4/12/2006 9:50	ME0016	
E0017	Soil/Sediment/ Lance Range	L/G	VOA (21)	263376 (1)	X113	S: 4/12/2006 10:40	ME0017	
E0018	Sediment/ Lance Range	L/G	VOA (21)	263379, 263380 (2)	S101	S: 4/12/2006 12:30	ME0018	

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: E0014, E0016, E0020	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number: 828/3- 828/5
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y Shipment Iced? Y

CLP ARO = CLP TCL PCB (Aroclors), CLP PEST = CLP TCL Pesticide, CLP SVOA = CLP TCL Semivolatile, CLP SVSIM = CLP TCL Semivolatiles-SIM, CLP TVOA = CLP TCL Trace Volatiles, CLP TVSIM = CLP TCL Trace Volatiles-SIM, VOA = CLP TCL Volatiles

TR Number: 5-314975591-041206-0003

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy t ample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4[illegible]

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229
DAS No:
SDG No:
L

Date Shipped:	4/12/2006
Carrier Name:	UPS
Airbill:	1Z6215892210024124
Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330

Chain of Custody Record

Sampler Signature: Lance Range

	Relinquished By	(Date / Time)	Received By	(Date / Time)
1	Terry Parker	4/12/06 1735	Barbara Crook	4/13/06 10 30
2				
3				
4				

For Lab Use Only

Lab Contract No: EPW05039
Unit Price: 200.00
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0019	Sediment/ Lance Range	L/G	VOA (21)	263384, 263385 (2)	S102	S: 4/12/2006	12:20	ME0019	
E0020	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263275, 263276, 263277, 263278, 263279, 263280, 263386 (HCL), 263387 (HCL), 263388 (HCL), 263389 (HCL), 263390 (HCL), 263391 (HCL), 263392 (HCL), 263393 (HCL), 263394 (HCL), 263395 (HCL), 263396 (HCL), 263397 (HCL), 263398 (HCL), 263399 (HCL), 263400 (HCL) (36)	G103	S: 4/12/2006	12:40	ME0020	
E0027	Soil/Sediment/ Lance Range	L/G	VOA (21)	264000 (1)	X114	S: 4/12/2006	13:55	ME0027	
E0028	Soil/Sediment/ Lance Range	L/G	VOA (21)	263454 (1)	X115	S: 4/12/2006	16:55	ME0028	

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: E0014, E0016, E0020	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number: 82813 - 82815
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓

CLP ARO = CLP TCL PCB (Aroclors), CLP PEST = CLP TCL Pesticide, CLP SVOA = CLP TCL Semivolatile, CLP SVSIM = CLP TCL Semivolatiles-SIM, CLP TVOA = CLP TCL Trace Volatiles, CLP TVSIM = CLP TCL Trace Volatiles-SIM, VOA = CLP TCL Volatiles

TR Number: 5-314975591-041206-0003

LABORATORY COPY

PR provide liminary results. Requests for preliminary results will increase analytical costs.
Send Copy Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Cent Chantilly, VA 20151-3819; Phone 703/818-4200, Fax 703/818-4602

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229
DAS No:
SDG No: E0001/E0010 L

Date Shipped: 4/13/2006	**Chain of Custody Record**	Sampler Signature: Lance Range	**For Lab Use Only**
Carrier Name: UPS	Relinquished-By (Date / Time)	Received By (Date / Time)	Lab Contract No: EPW05033
Airbill: 1Z6215892210024179	1 [illegible] 4/13/06 1200	Barbara Crook 4/14/06 1000	Unit Price:
Shipped to: Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330	2		Transfer To: PL 4/14/06
	3		Lab Contract No:
	4		Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0015	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	263367 (1)	X111	S: 4/5/2006	9:50	ME0015	
E0016	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	263371 (1)	X112	S: 4/12/2006	9:50	ME0016	
E0017	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	263375 (1)	X113	S: 4/12/2006	10:40	ME0017	
E0018	Sediment/ Lance Range	L/G	CLP SVOA (21)	263381 (1)	S101	S: 4/12/2006	12:30	ME0018	
E0019	Sediment/ Lance Range	L/G	CLP SVOA (21)	263383 (1)	S102	S: 4/12/2006	12:20	ME0019	
E0022	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263290 (HCL), 263291 (HCL), 263292 (HCL), 263293 (HCL), 263294 (HCL), 263295, 263296 (12)	Field Blank	S: 4/12/2006	14:30	ME0022	
E0023	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263968 (HCL), 263969 (HCL), 263970 (HCL), 263971 (HCL), 263972 (HCL), 263973, 263974 (12)	G104	S: 4/12/2006	14:20	ME0023	

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E0016, E0024, E0038		3°C	82817-82820
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓

CLP ARO = CLP TCL PCB (Aroclors), CLP PEST = CLP TCL Pesticide, CLP SVOA = CLP TCL Semivolatile, CLP SVSIM = CLP TCL Semivolatiles-SIM, CLP TVOA = CLP TCL Trace Volatiles, CLP TVSIM = CLP TCL Trace Volatiles-SIM, VOA = CLP TCL Volatiles

Numbe 5-314975591-041306-0002

LABORATORY COPY

es preli ry results. Requests for preliminary results will increase analytical costs.
o: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229
DAS No:
SDG No: E0001/E0010

L

Date Shipped:	4/13/2006
Carrier Name:	UPS
Airbill:	1Z6215892210024179
Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330

Chain of Custody Record

Sampler Signature: Bruce Range

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	4/13/06 1200	Barbara Crook	4/14/06 10:00
2			
3			
4			

For Lab Use Only

Lab Contract No: EPW05033
Unit Price:
Transfer To: TL
Lab Contract No: 4/14/06
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0024	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263978 (HCL), 263979 (HCL), 263980 (HCL), 263981 (HCL), 263982 (HCL), 263983, 263984 (12)	G189	S: 4/12/2006	14:20	ME0024	5-263983 BROKEN
E0025	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263988 (HCL), 263989 (HCL), 263990 (HCL), 263991 (HCL), 263992 (HCL), 263993, 263994 (12)	G105	S: 4/5/2006	14:50	ME0025	5-263992 Broken
E0026	Potable Well/ Lance Range	L/G	CLP TVOA (21), CLP TVSIM (21)	263998 (HCL), 263999 (HCL) (4)	Trip Blank 2	S: 4/12/2006	16:00		
E0027	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	263300 (1)	X114	S: 4/12/2006	13:55	ME0027	
E0028	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	263455 (1)	X115	S: 4/12/2006	16:55	ME0028	
E0029	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263458, 263459, 263460 (3)	S106	S: 4/12/2006	17:20	ME0029	
E0030	Sediment/ Paul Mason	L/G	CLP SVOA (21), VOA (21)	263462, 263463, 263464 (3)	S107	S: 4/12/2006	17:40	ME0030	
E0031	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263466, 263467, 263468 (3)	S108	S: 4/12/2006	18:00	ME0031	

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E0016, E0024, E0038		3°C	82817-82820

Analysis Key: Concentration: L = Low, M = Low/Medium, H = High Type/Designate: Composite = C, Grab = G Custody Seal Intact? ✓ Shipment Iced? ✓

CLP ARO = CLP TCL PCB (Aroclors), CLP PEST = CLP TCL Pesticide, CLP SVOA = CLP TCL Semivolatile, CLP SVSIM = CLP TCL Semivolatiles-SIM, CLP TVOA = CLP TCL Trace Volatiles, CLP TVSIM = CLP TCL Trace Volatiles-SIM, VOA = CLP TCL Volatiles

Number: 5-314975591-041306-0002

LABORATORY COPY

Preliminary results. Requests for preliminary results will increase analytical costs.

Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229
DAS No:
SDG No: E0032/E0010

L
T000

Date Shipped:	4/13/2006
Carrier Name:	UPS
Airbill:	1Z6215892210024179
Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330

Chain of Custody Record

Sampler Signature: Lance Range

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	4/13/06 1200	Barbara Crook	4/14/06 10 00
2			
3			
4			

For Lab Use Only

Lab Contract No: EPW05033
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0032	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263470, 263471 (2)	X116	S: 4/13/2006	8:30	ME0032	
E0033	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263474, 263475 (2)	X117	S: 4/6/2006	8:45	ME0033	
E0034	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263478, 263479 (2)	X118	S: 4/13/2006	9:00	ME0034	
E0035	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263481 (HCL), 263482 (HCL), 263483 (HCL), 263484 (HCL), 263485 (HCL), 263486, 263487 (12)	G106	S: 4/13/2006	10:00	ME0035	
E0036	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263490, 263491, 263493 (3)	S103	S: 4/13/2006	10:05	ME0036	
E0037	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263494, 263495, 263497 (3)	S104	S: 4/13/2006	11:00	ME0037	
E0038	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263498, 263499, 263601 (3)	S105	S: 4/13/2006	11.00	ME0038	
E0039	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263602, 263603, 263605 (3)	S109	S: 4/13/2006	10:20	ME0039	
E0040	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263606, 263607, 263609 (3)	S110	S: 4/13/2006	10:40	ME0040	

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E0016, E0024, E0038		3°C	82817-82820

Analysis Key: Concentration: L = Low, M = Low/Medium, H = High Type/Designate: Composite = C, Grab = G Custody Seal Intact? ✓ Shipment Iced? ✓

P ARO = CLP TCL PCB (Aroclors), CLP PEST = CLP TCL Pesticide, CLP SVOA = CLP TCL Semivolatile, CLP SVSIM = CLP TCL Semivolatiles-SIM, CLP TVOA = CLP TCL Trace Volatiles, CLP M = CLP TCL Trace Volatiles-SIM, VOA = CLP TCL Volatiles

nber: 5-314975591-041306-0002

LABORATORY COPY

ry results. Requests for preliminary results will increase analytical costs.
iple Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center D. Antilly, VA 20151-3819; Phone 703/818-4200; Fax

F2V5

SDG NARRATIVE

LABORATORY NAME: ENVIROSYSTEMS, INC.

CASE #: 35229 SDG #: E0011 REGION: 5

CONTRACT: EPW05033

DATE SAMPLES RECEIVED AT LABORATORY: 13 APRIL 2006

SAMPLE ANALYSES INCLUDED IN THIS REPORT:

EPA SAMPLE #	LAB ID#	ANALYSIS	MATRIX
E0010	0060419-08	PEST,ARO	WATER
E0011	0060419-07	PEST,ARO	WATER
E0020	0060419-10	PEST,ARO	WATER
E0022	0060419-01	PEST,ARO	WATER
E0023	0060419-02	PEST,ARO	WATER
E0024	0060419-03	PEST,ARO	WATER
E0025	0060419-04	PEST,ARO	WATER
E0035	0060419-05	PEST,ARO	WATER

Matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on sample E0020.

Samples for this SDG were analyzed by EPA SOW SOM01.1 for multi-media multi-concentration organics.

The cooler temperature was measured to be 2 degrees C.

PESTICIDES SECTION:

The primary analytical column was a Restek RTXCLP, 0.53 mm ID, 0.50 micron film thickness column. Confirmation analysis was performed using a Restek RTXCLP2, 0.53 mm ID, 0.42 micron film thickness GC column.

One of the surrogate recoveries for sample E0022 was low on both the columns.

The MS spiking solution was inadvertently used instead of the LCS spiking solution resulting in all the LCS spiked compounds recoveries outside the QC limits.

All the MS/MSD recoveries and RPD's were compliant.

All other QC criteria were met for all samples in this SDG.

AROCLOR SECTION:

The primary analytical column was a Restek RTXCLP, 0.53 mm ID, 0.50 micron film thickness column. Confirmation analysis was performed using a Restek RTXCLP2, 0.53 mm ID, 0.42 micron film thickness GC column.

Aroclor analysis for sample E0022 was performed by using a part of the Pesticide extract because the Aroclor extract was accidentally lost(see SMO E-mail in SDG section).

Aroclor surrogate recoveries for DCB were low for samples on both columns.

In continuing calibration AR1248302, TCX and DCB had greater than 20% RSD on both columns.

All other QC criteria appear to have been met for all samples in this SDG.

I CERTIFY THAT THIS SAMPLE DATA PACKAGE IS IN COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE CONTRACT, BOTH TECHNICALLY AND FOR COMPLETENESS, FOR OTHER THAN THE CONDITIONS DETAILED ABOVE. RELEASE OF THE DATA CONTAINED IN THIS HARDCOPY SAMPLE DATA PACKAGE AND IN THE ELECTRONIC DATA DELIVERABLE HAS BEEN AUTHORIZED BY THE LABORATORY MANAGER OR THE MANAGER'S DESIGNEE, AS VERIFIED BY THE FOLLOWING SIGNATURE:

Mohan Khare

Dr. Mohan Khare
President/CEO

DATE: 6/13/06
12 JUNE 2006

Envirosystems, Inc.

From: Maruska, Gale [gmaruska@fedcsc.com]
Sent: Thursday, April 27, 2006 2:43 PM
To: Barbara Crook (E-mail)
Cc: Mark Wagner (E-mail); Carlene Thomas (E-mail); Howard Pham (E-mail); Warren Layne (E-mail)
Subject: Region 05 | Case 35229 | Lab ENVSYS | SDG E0010 | Issue Laboratory problems | FINAL

Paul,

Issue: The laboratory has accidentally lost the Aroclor extract for sample # E0022, there is not enough sample left for reextraction and analysis for Aroclors. However, the laboratory can split the Pesticides fraction extract for this sample and use a part of this extract for Sulfuric Acid cleanup and Aroclor analysis as usual.

Resolution: Per Region 5, it is acceptable for the Laboratory to split the Pesticides fraction extract for sample # E0022 and use a part of this extract for Sulfuric Acid cleanup and Aroclor analysis.

Please let me know if you have any questions.

Gale E. Maruska
Computer Sciences Corporation
Environmental Scientist
STSR Coordinator Regions 5, 7 & 10
gmaruska@fedcsc.com
Phone(703)818-4125; Fax(703)818-4601; Alternate Fax(703)818-4602

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

-----Original Message-----
From: Pham.Howard@epamail.epa.gov [mailto:Pham.Howard@epamail.epa.gov]
Sent: Thursday, April 27, 2006 3:37 PM
To: Maruska, Gale
Subject: Re: FW: Region 05 | Case 35229 | Lab ENVSYS | SDG E0010 | Issue Labor atory problems (Howard - please advise)

Hi Gale,

Please ask the lab proceed the analyses as per Mark's resolution.

Thanks,

Howard Pham, Chemist/CLP PO
U.S. EPA, Region 5 (SMF-4J)
77 West Jackson Blvd.
Chicago, IL. 60604
(312) 353-2310
(312) 353-9281 (fax)
pham.howard@epa.gov

00511 PL 5/24/06 6/13/06
00309

-----Original Message-----
From: Maruska, Gale
Sent: Thursday, April 27, 2006 2:56 PM

To: Carlene Thomas (E-mail); Howard Pham (E-mail); Warren Layne (E-mail)
Subject: FW: Region 05 | Case 35229 | Lab ENVSYS | SDG E0010 | Issue Laboratory problems (Howard - please advise)

Howard,

Is this acceptable to the Region?

Thanks,

Gale

-----Original Message-----

From: Mark Wagner [mailto:Mark.Wagner@epa.state.il.us]

Sent: Thursday, April 27, 2006 2:54 PM

To: Maruska, Gale

Subject: Re: FW: Region 05 | Case 35229 | Lab ENVSYS | SDG E0010 | Issue Labor atory problems

yes

-----Original Message-----
From: Maruska, Gale
Sent: Thursday, April 27, 2006 2:38 PM
To: Mark Wagner (E-mail)
Cc: Carlene Thomas (E-mail); Howard Pham (E-mail); Warren Layne (E-mail)
Subject: FW: Region 05 | Case 35229 | Lab ENVSYS | SDG E0010 | Issue Laboratory problems

Mark,

Is it acceptable for the laboratory to split the Pesticides fraction extract for sample # E0022 and use a part of this extract for Sulfuric Acid cleanup and Aroclor analysis?

Thanks,
Gale

-----Original Message-----
From: Maruska, Gale
Sent: Wednesday, April 26, 2006 2:56 PM
To: Mark Wagner (E-mail)
Cc: Carlene Thomas (E-mail); Howard Pham (E-mail); Warren Layne (E-mail)
Subject: FW: Region 05 | Case 35229 | Lab ENVSYS | SDG E0010 | Issue Laboratory problems

Mark,

According to Dr. Khare, the work will not be according to the Statement of Work, it is valid data, but it does not conform to the SOW. What we are hoping for you to do is ask the Region if they will accept this method, or they won't accept it.

Please advise.

Thanks,
Gale

00512 PL 6/13/06

-----Original Message-----
From: Envirosystems [mailto:envirosystems@gmail.com]On Behalf Of Envirosystems, Inc.
Sent: Wednesday, April 26, 2006 1:56 PM
To: 'Maruska, Gale'
Subject: RE: Region 05 | Case 35229 | Lab ENVSYS | SDG E0010 | Issue Laboratory problems

PL 5/26/06

00310

00505

Gale,

According to Dr. Khare, the work will not be according to the Statement of Work, it is valid data, but it does not conform to the SOW. What we are hoping for you to do is ask the Region if they will accept this method, or they won't accept it. Let me know if you have any more questions. Thank you
Paul--

From: Maruska, Gale [mailto:gmaruska@fedcsc.com]
Sent: Wednesday, April 26, 2006 9:53 AM
To: Barbara Crook (E-mail)
Subject: FW: Region 05 | Case 35229 | Lab ENVSYS | SDG E0010 | Issue Laboratory problems

Paul,

Will the data be qualified?

Thanks,

Gale

-----Original Message-----

From: Mark Wagner [mailto:Mark.Wagner@epa.state.il.us]

Sent: Wednesday, April 26, 2006 10:42 AM

To: Maruska, Gale

Cc: Wasilewski, Tony

Subject: Re: Region 05 | Case 35229 | Lab ENVSYS | SDG E0010 | Issue

Laborator y problems

Please do what is needed. Will this data be qualified?

thanks,

Mark

-----Original Message-----
From: Maruska, Gale
Sent: Wednesday, April 26, 2006 10:29 AM
To: Mark Wagner (E-mail)
Cc: Carlene Thomas (E-mail); Howard Pham (E-mail); Warren Layne (E-mail)
Subject: Region 05 | Case 35229 | Lab ENVSYS | SDG E0010 | Issue Laboratory problems

Mark,

ENVSYS has sent the following issue for Case 35229:

The laboratory has accidentally lost the Aroclor extract for sample # E0022, there is not enough sample left for reextraction and analysis for Aroclors.
However , the laboratory can split the Pesticides fraction extract for this sample and use a part of this extract for Sulfuric Acid cleanup and Aroclor analysis as usual.

Please advise.

Gale E. Maruska
Computer Sciences Corporation
Environmental Scientist
ST&R Coordinator Regions 5, 7 & 10
gmaruska@fedcsc.com

00513 PL 6/13/06
5/26/06

00311

00506

Phone(703)818-4125; Fax(703)818-4601; Alternate Fax.703)818-4602

-----Original Message-----
From: Envirosystems [mailto:envirosystems@gmail.com]On Behalf Of Envirosystems, Inc.
Sent: Wednesday, April 26, 2006 10:08 AM
To: 'Maruska, Gale'
Subject: Case 352229 SDG E0010

Gale,

Issue: Case 35229 SDG E0010,

The laboratory has accidentally lost the Aroclor extract for sample # E0022, there is not enough sample left for reextraction and analysis for Aroclors.
However , the laboratory can split the Pesticides fraction extract for this sample and use a part of this extract for Sulfuric Acid cleanup and Aroclor analysis as usual. Please let me know how to proceed. Thank you Paul-Let me know if you need any more information.

00514 PV 6/13/06

5/26/06

00312

00507

2N - FORM II PEST-1
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0011

GC Column (1): RTXCLP ID: 0.53 (mm) GC Column (2): RTXCLP2 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	E0010	60	70	66	70			0
02	E0011	59	71	61	66			0
03	E0020	62	72	73	75			0
04	E0020MS	64	74	59	63			0
05	E0020MSD	58	56	66	69			0
06	E0022	62	60	12 *	13 *			2
07	E0023	80	92	93	98			0
08	E0024	72	4 *	73	82			1
09	E0025	56	62	64	70			0
10	E0035	56	67	57	61			0
11	PBLK17	58	72	48	50			0
12	PBLK18	62	74	47	47			0
13	PLCS18	54	65	30	36			0
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

\# Column to be used to flag recovery values
* Value outside of QC limits
D Surrogate diluted out

00013

3G - FORM III PEST-1
WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0011

Matrix Spike - EPA Sample No.: E0020

Instrument ID: HP90D GC Column: RTXCLP ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC #	QC LIMITS REC.
gamma-BHC (Lindane)	0.50	ND	0.36	72	56-123
Heptachlor	0.50	0.018	0.39	74	40-131
Aldrin	0.50	ND	0.35	70	40-120
Dieldrin	1.0	ND	0.75	75	52-126
Endrin	1.0	ND	0.89	89	56-121
4,4'-DDT	1.0	0.025	0.77	75	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
gamma-BHC (Lindane)	0.50	0.34	68	6	0-15	56-123
Heptachlor	0.50	0.35	66	11	0-20	40-131
Aldrin	0.50	0.34	68	3	0-22	40-120
Dieldrin	1.0	0.70	70	7	0-18	52-126
Endrin	1.0	0.84	84	6	0-21	56-121
4,4'-DDT	1.0	0.69	67	11	0-27	38-127

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS:

3L - FORM III PEST-3
WATER PESTICIDE LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

PLCS18

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0011

Lab Sample ID: 0D618C4-BS2 LCS Lot No.:

Date Extracted: 04/18/2006 Date Analyzed (1): 04/20/2006

Instrument ID (1): HP90D GC Column (1): RTXCLP ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC	#	QC LIMITS
gamma-BHC (Lindane)	0.50	0.040	8	*	50-120
Heptachlor	0.50	ND			0-200
Aldrin	0.50	ND			0-200
Dieldrin	1.0	0.076	8	*	30-130
Endrin	1.0	0.095	10	*	50-120
4,4'-DDT	1.0	0.027	3		0-200

Instrument ID (2): HP90D GC Column (2): RTXCLP2 ID: 0.53 (mm)

Date Analyzed (2): 04/20/2006

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC	#	QC LIMITS
gamma-BHC (Lindane)	0.50	0.050	10	*	50-120
Heptachlor	0.50	ND			0-200
Aldrin	0.50	0.037	7		0-200
Dieldrin	1.0	0.12	12	*	30-130
Endrin	1.0	0.13	13	*	50-120
4,4'-DDT	1.0	0.022	2		0-200

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits

LCS Recovery: 6 out of 12 outside limits

COMMENTS:

4E - FORM IV PEST
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK17

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0011

Lab File ID: 0000078R.0057.ZED Lab Sample ID: 0D61804-BLK1

Matrix: (SOIL/SED/WATER) WATER Extraction: (Type) CONT Date Extracted: 04/18/2006

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

Date Analyzed (1): 04/20/2006 Date Analyzed (2): 04/20/2006

Time Analyzed (1): 1749 Time Analyzed (2): 1749

Instrument ID (1): HP90D Instrument ID (2): HP90D

GC Column(1): RTXCLP ID: 0.53 (mm) GC Column(2): RTXCLP2 ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	E0023	0060419-02	04/20/2006	04/20/2006
02	E0024	0060419-03	04/20/2006	04/20/2006
03	E0025	0060419-04	04/20/2006	04/20/2006
04	E0035	0060419-05	04/21/2006	04/21/2006
05	E0011	0060419-07	04/20/2006	04/20/2006
06	E0010	0060419-08	04/20/2006	04/20/2006
07	E0020	0060419-10	04/20/2006	04/20/2006
08	PLCS18	0D61804-BS2	04/20/2006	04/20/2006
09	E0020MS	0D61804-MS1	04/20/2006	04/20/2006
10	E0020MSD	0D61804-MSD1	05/02/2006	05/02/2006
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

00016

4E - FORM IV PEST
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK18

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0011

Lab File ID: 0000078R.0058.ZED Lab Sample ID: 0D61804-BLK2

Matrix: (SOIL/SED/WATER) WATER Extraction: (Type) CONT Date Extracted: 04/18/2006

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

Date Analyzed (1): 04/20/2006 Date Analyzed (2): 04/20/2006

Time Analyzed (1): 1828 Time Analyzed (2): 1828

Instrument ID (1): HP90D Instrument ID (2): HP90D

GC Column(1): RTXCLP ID: 0.53 (mm) GC Column(2): RTXCLP2 ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	E0023	0060419-02	04/20/2006	04/20/2006
02	E0024	0060419-03	04/20/2006	04/20/2006
03	E0025	0060419-04	04/20/2006	04/20/2006
04	E0035	0060419-05	04/21/2006	04/21/2006
05	E0011	0060419-07	04/20/2006	04/20/2006
06	E0010	0060419-08	04/20/2006	04/20/2006
07	E0020	0060419-10	04/20/2006	04/20/2006
08	PLCS18	0D61804-BS2	04/20/2006	04/20/2006
09	E0020MS	0D61804-MS1	04/20/2006	04/20/2006
10	E0020MSD	0D61804-MSD1	05/02/2006	05/02/2006
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

00017

SOM01.1 (5/2005)

2Q - FORM II ARC-1
WATER AROCLOR SURROGATE RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0011

GC Column (1): RTXCLP ID: 0.53 (mm) GC Column (2): RTXCLP2 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	ABLK15	88	87	22 *	25 *			2
02	ABLK16	83	81	48	50			0
03	ALCS15	88	84	22 *	24 *			2
04	ALCS16	81	78	20 *	24 *			2
05	E0010	87	85	89	100			0
06	E0011	85	83	87	93			0
07	E0020	86	84	87	90			0
08	E0020MS	82	88	75	77			0
09	E0020MSD	82	84	76	88			0
10	E0022	81	85	13 *	22 *			2
11	E0023	72	74	70	79			0
12	E0024	85	89	90	93			0
13	E0025	83	84	59	67			0
14	E0035	88	87	75	84			0
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Value outside of QC limits
D Surrogate diluted out

00209

3J - FORM III ARO-1
WATER AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0011

Matrix Spike - EPA Sample No.: E0020

Instrument ID: HP90D GC Column: RTXCLP ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC #	QC LIMITS REC.
AR1016	1.0	ND	1.1	110	29-135
AR1260	1.0	ND	0.77	77	29-135

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
AR1016	1.0	1.4	140 *	24 *	0-15	29-135
AR1260	1.0	0.85	85	10	0-20	29-135

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 1 out of 2 outside limits
Spike Recovery: 1 out of 4 outside limits

COMMENTS: _____

3J - FORM III ARO-1
WATER AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0011

Matrix Spike - EPA Sample No.: E0020

Instrument ID: HP90D GC Column: RTXCLP2 ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC #	QC LIMITS REC.
AR1016	1.0	ND	1.2	120	29-135
AR1260	1.0	ND	1.0	100	29-135

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
AR1016	1.0	2.1	210 *	55 *	0-15	29-135
AR1260	1.0	1.1	110	10	0-20	29-135

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 1 out of 2 outside limits
Spike Recovery: 1 out of 4 outside limits

COMMENTS: _____

3N - FORM III ARO-3
WATER AROCLOR LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

ALCS15

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0011

Lab Sample ID: OD61902-BS1 LCS Lot No.: P-2464

Date Extracted: 04/19/2006 Date Analyzed (1): 04/25/2006

Instrument ID (1): HP90D GC Column (1): RTXCLP ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC #	QC LIMITS
AR1016	1.0	1.4	140	50-150
AR1260	1.0	0.87	87	50-150

Instrument ID (2): HP90D GC Column (2): RTXCLP2 ID: 0.53 (mm)

Date Analyzed (2): 04/25/2006

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC #	QC LIMITS
AR1016	1.0	1.3	130	50-150
AR1260	1.0	1.1	110	50-150

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits

LCS Recovery: 0 out of 4 outside limits

COMMENTS:

3N - FORM III ARO-3
WATER AROCLOR LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

ALCS16

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0011

Lab Sample ID: OD61902-BS2 LCS Lot No.: P-2464

Date Extracted: 04/19/2006 Date Analyzed (1): 04/25/2006

Instrument ID (1): HP90D GC Column (1): RTXCLP ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC #	QC LIMITS
AR1016	1.0	1.0	100	50-150
AR1260	1.0	0.85	85	50-150

Instrument ID (2): HP90D GC Column (2): RTXCLP2 ID: 0.53 (mm)

Date Analyzed (2): 04/25/2006

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC #	QC LIMITS
AR1016	1.0	1.1	110	50-150
AR1260	1.0	0.93	93	50-150

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits

LCS Recovery: 0 out of 4 outside limits

COMMENTS:

4F - FORM IV ARO
AROCLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.
ABLK15

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0011

Lab File ID: 0000089F.0016.ZED Lab Sample ID: 0D61902-BLK1

Matrix: (SOIL/SED/WATER) WATER Extraction: (Type) CONT Date Extracted: 04/19/2006

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

Acid Cleanup: (Y/N) Y

Date Analyzed (1): 04/25/2006 Date Analyzed (2): 04/25/2006

Time Analyzed (1): 1803 Time Analyzed (2): 1803

Instrument ID (1): HP90D Instrument ID (2): HP90D

GC Column(1): RTXCLP ID: 0.53 (mm) GC Column(2): RTXCLP2 ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	E0022	0060419-01	04/25/2006	04/25/2006
02	E0023	0060419-02	04/25/2006	04/25/2006
03	E0024	0060419-03	04/25/2006	04/25/2006
04	E0025	0060419-04	04/26/2006	04/26/2006
05	E0035	0060419-05	04/26/2006	04/26/2006
06	E0011	0060419-07	04/25/2006	04/25/2006
07	E0010	0060419-08	04/25/2006	04/25/2006
08	E0020	0060419-10	04/25/2006	04/25/2006
09	ALCS15	0D61902-BS1	04/25/2006	04/25/2006
10	ALCS16	0D61902-BS2	04/25/2006	04/25/2006
11	E0020MS	0D61902-MS1	04/26/2006	04/26/2006
12	E0020MSD	0D61902-MSD1	04/26/2006	04/26/2006
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

00214

SOM01.1 (5/2005)

4F - FORM IV ARO
AROCLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.
ABLK16

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0011

Lab File ID: 0000089F.0017.ZED Lab Sample ID: 0D61902-BLK2

Matrix: (SOIL/SED/WATER) WATER Extraction: (Type) CONT Date Extracted: 04/19/2006

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

Acid Cleanup: (Y/N) Y

Date Analyzed (1): 04/25/2006 Date Analyzed (2): 04/25/2006

Time Analyzed (1): 1842 Time Analyzed (2): 1842

Instrument ID (1): HP90D Instrument ID (2): HP90D

GC Column(1): RTXCLP ID: 0.53 (mm) GC Column(2): RTXCLP2 ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	E0022	0060419-01	04/25/2006	04/25/2006
02	E0023	0060419-02	04/25/2006	04/25/2006
03	E0024	0060419-03	04/25/2006	04/25/2006
04	E0025	0060419-04	04/26/2006	04/26/2006
05	E0035	0060419-05	04/26/2006	04/26/2006
06	E0011	0060419-07	04/25/2006	04/25/2006
07	E0010	0060419-08	04/25/2006	04/25/2006
08	E0020	0060419-10	04/25/2006	04/25/2006
09	ALCS15	0D61902-BS1	04/25/2006	04/25/2006
10	ALCS16	0D61902-BS2	04/25/2006	04/25/2006
11	E0020MS	0D61902-MS1	04/26/2006	04/26/2006
12	E0020MSD	0D61902-MSD1	04/26/2006	04/26/2006
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

00215

SOM01.1 (5/2005)

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0020MS(1)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0011

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D61804-MS1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0000076F.0063.ZED

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 04/14/2006

Extraction: (Type) CONT Date Extracted: 04/18/2006

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/20/2006

Injection Volume: 0.1 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.046	JB
319-86-8	delta-BHC	0.020	JB
58-89-9	gamma-BHC (Lindane)	0.36	
76-44-8	Heptachlor	0.39	B
309-00-2	Aldrin	0.35	P
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.75	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.89	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.028	JBP
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.77	B
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.036	J
7421-93-4	Endrin aldehyde	0.032	J
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.063	BP u
8001-35-2	Toxaphene	5.0	U

RB 7/6/06

00191

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0020MS(2)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0011

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D61804-MS1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0000078R.0063.ZED

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 04/14/2006

Extraction: (Type) CONT Date Extracted: 04/18/2006

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/20/2006

Injection Volume: 0.1 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q	
319-84-6	alpha-BHC	0.050	U	
319-85-7	beta-BHC	0.050	U	
319-86-8	delta-BHC	0.050	U	
58-89-9	gamma-BHC (Lindane)	0.45	B	0.36
76-44-8	Heptachlor	0.050	U	
309-00-2	Aldrin	0.062	P	0.062
1024-57-3	Heptachlor epoxide	0.014	JB	
959-98-8	Endosulfan I	0.0026	JB	
60-57-1	Dieldrin	0.88	B	0.5
72-55-9	4,4'-DDE	0.011	JB	
72-20-8	Endrin	1.0	B	0.89
33213-65-9	Endosulfan II	0.022	JB	
72-54-8	4,4'-DDD	0.055	JBP	0.028 P
1031-07-8	Endosulfan sulfate	0.10	U	
50-29-3	4,4'-DDT	0.85	B	0.77
72-43-5	Methoxychlor	0.016	JB	
53494-70-5	Endrin ketone	0.029	JB	0.029
7421-93-4	Endrin aldehyde	0.10	U	
5103-71-9	alpha-Chlordane	0.050	U	
5103-74-2	gamma-Chlordane	0.023 0.05	JBP U	
8001-35-2	Toxaphene	5.0	U	

7/5/06

00193

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0020MSD(1)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0011

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D61804-MSD1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0000096F.0025.ZED

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 04/14/2006

Extraction: (Type) CONT Date Extracted: 04/18/2006

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/02/2006

Injection Volume: 0.1 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.0098 0.05	JBP U
58-89-9	gamma-BHC (Lindane)	0.34	
76-44-8	Heptachlor	0.35	B
309-00-2	Aldrin	0.34	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.70	
72-55-9	4,4'-DDE	0.013 0.10	JBP U
72-20-8	Endrin	0.84	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.026	JB
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.69	B
72-43-5	Methoxychlor	0.029 0.5	JP U
53494-70-5	Endrin ketone	0.023 0.10	JP U
7421-93-4	Endrin aldehyde	0.016 0.10	JP U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.033 0.05	JB U
8001-35-2	Toxaphene	5.0	U

RB 7/6/06

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0020MSD(2)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0011

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: OD61804-MSD1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0000096R.0025.ZED

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 04/14/2006

Extraction: (Type) CONT Date Extracted: 04/18/2006

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/02/2006

Injection Volume: 0.1 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q	
319-84-6	alpha-BHC	0.050	U	
319-85-7	beta-BHC	0.016	J	
319-86-8	delta-BHC	0.013	JP	
58-89-9	gamma-BHC (Lindane)	0.34	B	0.34
76-44-8	Heptachlor	0.35		0.35
309-00-2	Aldrin	0.34		0.34
1024-57-3	Heptachlor epoxide	0.012	JB	
959-98-8	Endosulfan I	0.0022	JB	
60-57-1	Dieldrin	0.78	B	0.20
72-55-9	4,4'-DDE	0.0089 0.10	JBP U	
72-20-8	Endrin	0.86	B	0.84
33213-65-9	Endosulfan II	0.0065	JB	
72-54-8	4,4'-DDD	0.023	JB	0.023
1031-07-8	Endosulfan sulfate	0.10	U	
50-29-3	4,4'-DDT	0.72	B	0.69
72-43-5	Methoxychlor	0.022 0.50	JBP U	
53494-70-5	Endrin ketone	0.015 0.10	JBP U	
7421-93-4	Endrin aldehyde	0.21	P	
5103-71-9	alpha-Chlordane	0.050	U	
5103-74-2	gamma-Chlordane	0.036 0.05	JB U	
8001-35-2	Toxaphene	5.0	U	

00199

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
PBLK17

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0011

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D61804-BLK1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0000078F.0057.ZED

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) CONT Date Extracted: 04/18/2006

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/20/2006

Injection Volume: 0.1 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.022	JP
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK18

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0011

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D61804-BLK2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0000078R.0058.ZED

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) CONT Date Extracted: 04/18/2006

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/20/2006

Injection Volume: 0.1 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.0059 0.10	JP u
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.023 0.10	JP u
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.023 0.10	JP u
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.014	JP
8001-35-2	Toxaphene	5.0	U

RB 7/6/06

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
PLCS18(2)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0011

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D61804-BS2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0000078R.0059.ZED

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

Extraction: (Type) CONT Date Extracted: 04/18/2006

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/20/2006

Injection Volume: 0.1 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q	
319-84-6	alpha-BHC	0.050	U	
319-85-7	beta-BHC	0.050	U	
319-86-8	delta-BHC	0.050	U	
58-89-9	gamma-BHC (Lindane)	0.050	B	0.043
76-44-8	Heptachlor	0.050	U	
309-00-2	Aldrin	0.037	J	
1024-57-3	Heptachlor epoxide	0.055	BP	0.035 J
959-98-8	Endosulfan I	0.0030	JB	
60-57-1	Dieldrin	0.12	BP	0.076 J
72-55-9	4,4'-DDE	0.094	JB	0.087
72-20-8	Endrin	0.13	BP	0.095 J
33213-65-9	Endosulfan II	0.0074	JB	
72-54-8	4,4'-DDD	0.041	JBP	
1031-07-8	Endosulfan sulfate	0.037	J	0.037
50-29-3	4,4'-DDT	0.022	JB	0.022
72-43-5	Methoxychlor	0.036 0.50	JBP U	
53494-70-5	Endrin ketone	0.012	JB	
7421-93-4	Endrin aldehyde	0.10	U	
5103-71-9	alpha-Chlordane	0.050	U	
5103-74-2	gamma-Chlordane	0.058	B Li	
8001-35-2	Toxaphene	5.0	U	

00205

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
PLCS18(1)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0011

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D61804-BS2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0000078F.0059.ZED

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) CONT Date Extracted: 04/18/2006

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/20/2006

Injection Volume: 0.1 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.019	JB
58-89-9	gamma-BHC (Lindane)	0.040	J
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.038	JP
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.076	JP
72-55-9	4,4'-DDE	0.087	JB
72-20-8	Endrin	0.095	JP
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.024 0.10	JBP u
1031-07-8	Endosulfan sulfate	0.044	J
50-29-3	4,4'-DDT	0.027	JB
72-43-5	Methoxychlor	0.051 0.50	JP u
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.026	J
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.047 0.05	JB u
8001-35-2	Toxaphene	5.0	U

RB 7/6/06

00203

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0020MS(1)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0011

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D61902-MS1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0000089F.0028.ZED

% Moisture: Decanted: (Y/N) Date Received: 04/14/2006

Extraction: (Type) CONT Date Extracted: 04/19/2006

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/26/2006

Injection Volume: 0.1 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

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

ACID Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
12674-11-2	AR1016	1.1	
11104-28-2	AR1221	1.0	U
11141-16-5	AR1232	1.0	U
53469-21-9	AR1242	1.0	U
12672-29-6	AR1248	1.0	U
11097-69-1	AR1254	1.0	U
11096-82-5	AR1260	0.77	JP
37324-23-5	AR1262	1.0	U
11100-14-4	AR1268	1.0	U

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0020MS(2)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0011

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D61902-MS1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0000089R.0028.ZED

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 04/14/2006

Extraction: (Type) CONT Date Extracted: 04/19/2006

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/26/2006

Injection Volume: 0.1 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

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

ACID Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
12674-11-2	AR1016	1.2	
11104-28-2	AR1221	1.0	U
11141-16-5	AR1232	1.0	U
53469-21-9	AR1242	1.0	U
12672-29-6	AR1248	1.0	U
11097-69-1	AR1254	1.0	U
11096-82-5	AR1260	1.0	P
37324-23-5	AR1262	1.0	U
11100-14-4	AR1268	1.0	U

0.77JP

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0020MSD(1)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0011

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D61902-MSD1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: C000089F.0029.ZED

% Moisture: Decanted: (Y/N) Date Received: 04/14/2006

Extraction: (Type) CONT Date Extracted: 04/19/2006

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/26/2006

Injection Volume: 0.1 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

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

ACID Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
12674-11-2	AR1016	1.4	P
11104-28-2	AR1221	1.0	U
11141-16-5	AR1232	1.0	U
53469-21-9	AR1242	1.0	U
12672-29-6	AR1248	1.0	U
11097-69-1	AR1254	1.0	U
11096-82-5	AR1260	0.85	JP
37324-23-5	AR1262	1.0	U
11100-14-4	AR1268	1.0	U

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0020MSD(2)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0011

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D61902-MSD1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0000089R.0029.ZED

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 04/14/2006

Extraction: (Type) CONT Date Extracted: 04/19/2006

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/26/2006

Injection Volume: 0.1 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

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

ACID Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
12674-11-2	AR1016	2.1	P
11104-28-2	AR1221	1.0	U
11141-16-5	AR1232	1.0	U
53469-21-9	AR1242	1.0	U
12672-29-6	AR1248	1.0	U
11097-69-1	AR1254	1.0	U
11096-82-5	AR1260	1.1	P
37324-23-5	AR1262	1.0	U
11100-14-4	AR1268	1.0	U

0.75 PD

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
ABLK15

Lab Name: Envirosystems, Inc. Contract: EPWC5033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0011

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D61902-BLK1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0000089F.0016.ZED

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) CONT Date Extracted: 04/19/2006

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/25/2006

Injection Volume: 0.1 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

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

ACID Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
12674-11-2	AR1016	1.0	U
11104-28-2	AR1221	1.0	U
11141-16-5	AR1232	1.0	U
53469-21-9	AR1242	1.0	U
12672-29-6	AR1248	1.0	U
11097-69-1	AR1254	1.0	U
11096-82-5	AR1260	1.0	U
37324-23-5	AR1262	1.0	U
11100-14-4	AR1268	1.0	U

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ABLK16

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0011

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D61902-BLK2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0000089F.0017.ZED

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) CONT Date Extracted: 04/19/2006

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/25/2006

Injection Volume: 0.1 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

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

ACID Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
12674-11-2	AR1016	1.0	U
11104-28-2	AR1221	1.0	U
11141-16-5	AR1232	1.0	U
53469-21-9	AR1242	1.0	U
12672-29-6	AR1248	1.0	U
11097-69-1	AR1254	1.0	U
11096-82-5	AR1260	1.0	U
37324-23-5	AR1262	1.0	U
11100-14-4	AR1268	1.0	U

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
ALCS15(1)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0011

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D61902-BS1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0000089F.0018.ZED

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) CONT Date Extracted: 04/19/2006

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/25/2006

Injection Volume: 0.1 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

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

ACID Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
12674-11-2	AR1016	1.4	
11104-28-2	AR1221	1.0	U
11141-16-5	AR1232	1.0	U
53469-21-9	AR1242	1.0	U
12672-29-6	AR1248	1.0	U
11097-69-1	AR1254	1.0	U
11096-82-5	AR1260	0.87	JP
37324-23-5	AR1262	1.0	U
11100-14-4	AR1268	1.0	U

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
ALCS15(2)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0011

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D61902-BS1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0000089R.0018.ZED

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) CONT Date Extracted: 04/19/2006

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/25/2006

Injection Volume: 0.1 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

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

ACID Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
12674-11-2	AR1016	1.3	
11104-28-2	AR1221	1.0	U
11141-16-5	AR1232	1.0	U
53469-21-9	AR1242	1.0	U
12672-29-6	AR1248	1.0	U
11097-69-1	AR1254	1.0	U
11096-82-5	AR1260	1.1	P
37324-23-5	AR1262	1.0	U
11100-14-4	AR1268	1.0	U

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
ALCS16(1)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0011

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D61902-BS2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0000089F.0019.ZED

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) CONT Date Extracted: 04/19/2006

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/25/2006

Injection Volume: 0.1 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

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

ACID Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
12674-11-2	AR1016	1.0	
11104-28-2	AR1221	1.0	U
11141-16-5	AR1232	1.0	U
53469-21-9	AR1242	1.0	U
12672-29-6	AR1248	1.0	U
11097-69-1	AR1254	1.0	U
11096-82-5	AR1260	0.85	J
37324-23-5	AR1262	1.0	U
11100-14-4	AR1268	1.0	U

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
ALCS16(2)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0011

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0D61902-BS2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0000089R.0019.ZED

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

Extraction: (Type) CONT Date Extracted: 04/19/2006

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/25/2006

Injection Volume: 0.1 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

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

ACID Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
12674-11-2	AR1016	1.1	
11104-28-2	AR1221	1.0	U
11141-16-5	AR1232	1.0	U
53469-21-9	AR1242	1.0	U
12672-29-6	AR1248	1.0	U
11097-69-1	AR1254	1.0	U
11096-82-5	AR1260	0.93	J
37324-23-5	AR1262	1.0	U
11100-14-4	AR1268	1.0	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0022

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0011

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0060419-01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0000096F.0024.ZED

% Moisture: Decanted: (Y/N) Date Received: 04/17/2006

Extraction: (Type) CONT Date Extracted: 04/19/2006

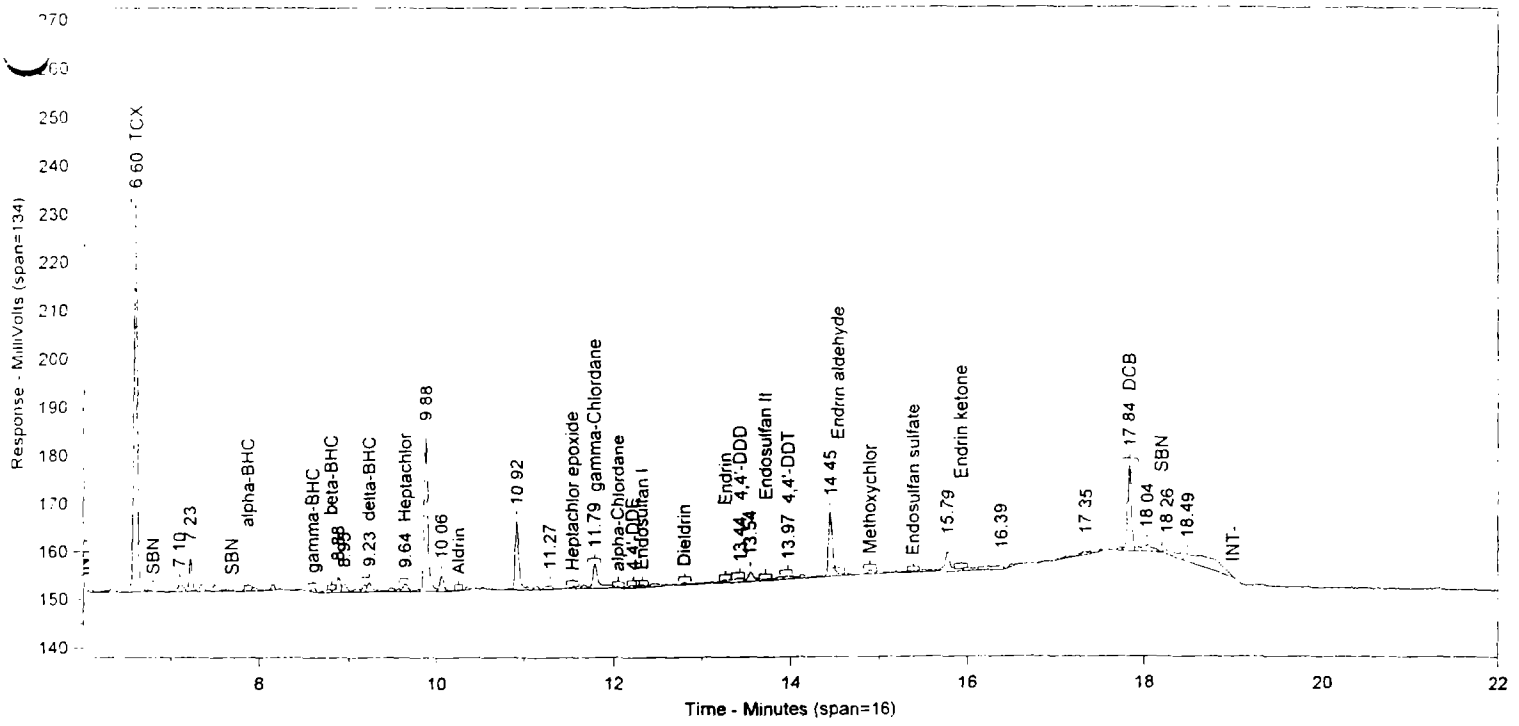
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/02/2006

Injection Volume: 0.1 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

E:\data\HP90D1\0000096F.0024.RAW * 0060419-01 E0022
E:\data\HP90D1\0000096F.0024.RAW 0060419-01 E0022



Sample Name = 0060419-01 E0022
Date Taken (start) = 5/2/06 16:29:59
Raw File Name = E:\data\HP90D1\0000096F.0024.RAW
Method File Name = E:\MET\D4.2DUALCOL1.MET
Calibration File Name = E:\CAL\DSOM0501.cal

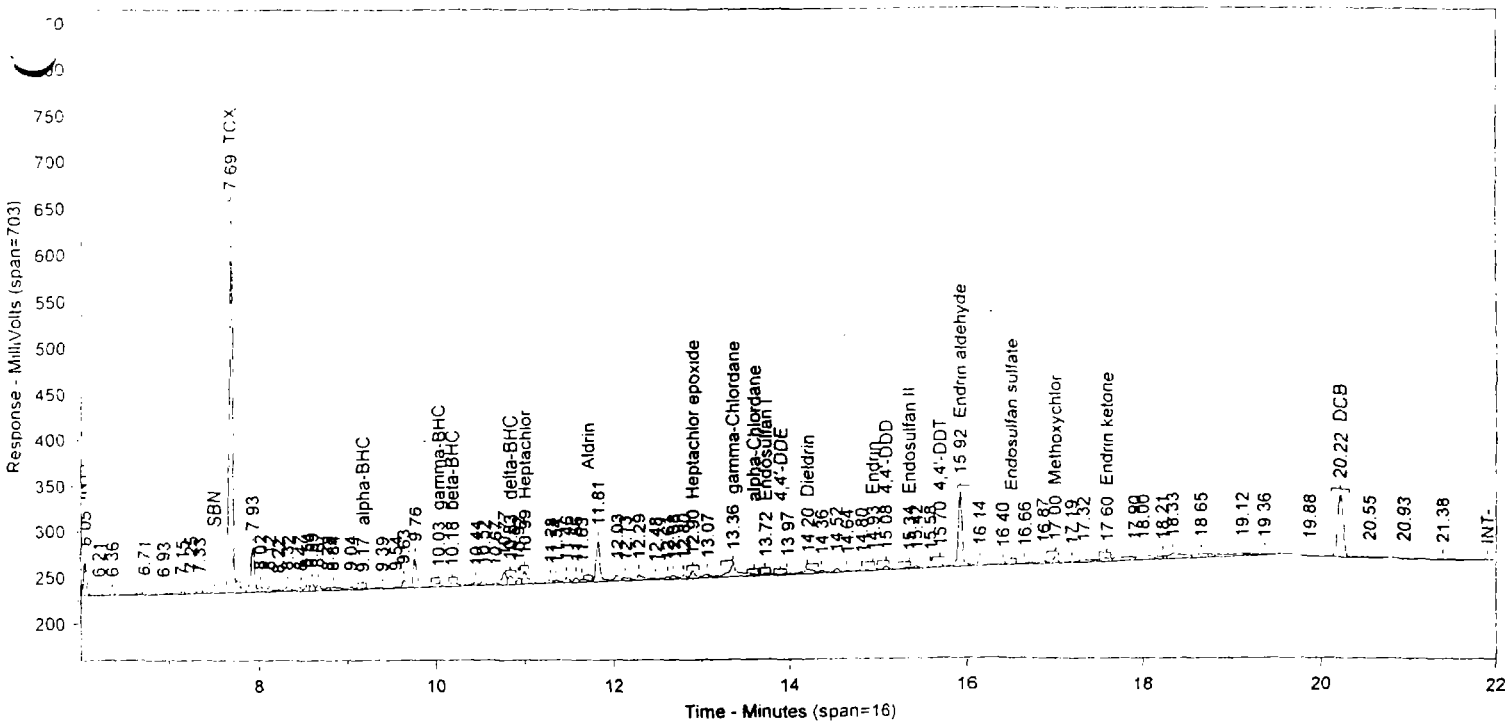
Instrument : HP90D1
Column: RTXCLP id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

Ret. Time (min)	Peak Area	Peak Name	Amount Fnd. ug/L
6.60	207112	TCX	37.057
7.10	6831		0.000
7.23	18614		0.000
8.88	9907		0.000
8.95	6747		0.000
9.23	7056	delta-BHC	1.231
9.64	7416	Heptachlor	1.341
9.88	101551		0.000
10.06	12127		0.000
10.92	47042		0.000
11.27	5509		0.000
11.79	23910	gamma-Chlordane	4.644
13.44	10516	4,4'-DDD	2.704
13.54	9504		0.000
13.97	5099	4,4'-DDT	1.195
14.45	44384		0.000
15.79	19387		0.000
16.39	12091		0.000
17.35	5759		0.000
17.84	56946	DCB	14.239
18.04	9593		0.000
18.26	11974		0.000
18.49	53781		0.000

00032

E:\data\HP90D1\0000096R.0024.RAW *
E:\data\HP90D1\0000096R.0024.RAW

0060419-01 E0022
0060419-01 E0022



Sample Name = 0060419-01 E0022
Date Taken (start) = 5/2/06 16:29:59
Raw File Name = E:\data\HP90D1\0000096R.0024.RAW
thod File Name = E:\MET\D4.2DUALCOL2.MET
ibration File Name = E:\CAL\DSOM0501B.cal

Instrument : HP90D2
Column: RTXCLP2 id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
6.05	90624		0.000
6.21	11727		0.000
6.36	8657		0.000
6.71	10589		0.000
6.93	10910		0.000
7.15	8488		0.000
7.25	21553		0.000
7.33	17526		0.000
7.69	1139801	TCX	35.831
7.93	144786		0.000
8.02	21354		0.000
8.12	20659		0.000
8.22	6034		0.000
8.32	20779		0.000
8.47	12153		0.000
8.54	20206		0.000
8.59	23750		0.000
8.67	24917		0.000
8.78	11723		0.000
8.84	25361		0.000
9.04	13561		0.000
9.17	6411	alpha-BHC	0.150
9.39	5094		0.000
9.54	6664		0.000
9.63	25991		0.000
9.76	97012		0.000
10.03	24774	gamma-BHC	0.630
10.18	31259	beta-BHC	1.646

00033

Ret Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
10.44	14979		0.000
10.52	15336		0.000
10.67	9175		0.000
10.77	49198		0.000
10.83	35504	delta-BHC	0.974
10.92	21484		0.000
10.99	61768	Heptachlor	1.596
11.28	16978		0.000
11.34	9967		0.000
11.46	19475		0.000
11.56	18101		0.000
11.63	18394		0.000
11.81	137687		0.000
12.03	27066		0.000
12.13	18854		0.000
12.29	28915		0.000
12.48	5222		0.000
12.61	10904		0.000
12.68	15854		0.000
12.80	15137		0.000
12.90	33158	Heptachlor epoxide	1.049
13.07	25967		0.000
13.36	103813	gamma-Chlordane	3.241
13.72	11126	Endosulfan I	0.370
13.97	11251		0.000
14.20	36150	Dieldrin	1.278
14.36	10655		0.000
14.52	18285		0.000
14.64	5728		0.000
14.80	9291		0.000
14.93	18081	Endrin	0.833
15.08	15803	4,4'-DDD	0.678
15.34	9053	Endosulfan II	0.384
15.42	10711		0.000
15.58	5066		0.000
15.70	19909	4,4'-DDT	0.869
15.92	264906	Endrin aldehyde	15.486
16.14	15044		0.000
16.40	14981		0.000
16.66	6159		0.000
16.87	22881		0.000
17.00	29292	Methoxychlor	3.012
17.19	5826		0.000
17.32	33912		0.000
17.60	37472	Endrin ketone	1.738
17.90	56336		0.000
18.00	52954		0.000
18.21	17850		0.000
18.33	72830		0.000
18.65	42117		0.000
19.12	68315		0.000
19.36	11094		0.000
19.88	5665		0.000
20.22	277080	DCB	15.389
20.55	6177		0.000
20.93	8139		0.000
21.38	13212		0.000

00034

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E0011 CERCLIS No: FLD980794929

Case No: 35229 Site Name/Location: DUNAHAN OIL (FL)

Contractor or EPA Lab: ENVIROSYSTEMS Data User: IEPA

No. of Samples: 10 Date Sampled or Date Received: 6/14/06

Have Chain-of-Custody records been received? Yes X No ____
Have traffic reports or packing lists been received? Yes X No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

____ ____ ____ ____
____ ____ ____ ____

Are basic data forms in? Yes X No ____
No of samples claimed: ____ No. of samples received: ____

Received by: Adam Johnson Date: 6/14/06

Received by LSSS: Adam Johnson Date: 6/14/06

Review started: 5 July 2006 Reviewer Signature: Richard O. Baker

Total time spent on review: 23½ Date review completed: 12 July 2006

Copied by: Adam Johnson Date: 25 July 06

Mailed to user by: DA Johnson Date: 25 July 06

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

____

____

Received by Data Mgmt. Coordinator for Files. Date: ____

DATE: August 3, 2006

IEPA
Attn: Mr. Bob Casper
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

SITE NAME: Dunavan Oil (IL)

CASE NO.	LAB	SAMPLES	SDG	MATRIX
35229	Envirosystems	20	E0002	soil

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: **U.S. EPA - Region 5**
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat Johnson
Data Coordinator
ESAT Region 5 **TechLaw**

AUG 07 2006

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: June 16, 2006

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

for Steve Ostrodka
Richard L Byrnit
7/28/06

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE Name: Dunavan Oil (IL)

Case Number: 35229 SDG Number: E0002

Number and Type of Samples: 20 Soil Samples (Pest & Aroclor)

Sample Numbers: E0001 – E0009, E0014 – E0019, E0027 – E0031

Laboratory: Envirosystems, Inc Hrs for Review:

Following are our findings:

the data are usable and acceptable with the qualifications described in the attached narrative
Richard L Byrnit

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0002
Laboratory: Envirosystems, Inc.

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

A total of twenty (20) soil samples labeled E0001 through E0009, E0014 through E0019, and E0027 through E0031, were received by Envirosystems, Inc. intact and properly cooled. Two (2) samples; E0014 and E0015, were collected on April 5, 2006 and received on April 13, 2006. Nine (9) samples; E0001 through E0009, were collected on April 11, 2006 and received on April 12, 2006. Nine (9) samples; E0016 through E0019 and E0027 through E0031 were collected on April 12, 2006 and received on April 13 - 14, 2006.

The pesticide and aroclor analyses were requested by Region 5 after the samples containers were received by the laboratory; therefore, the analyses were not listed on the Chain-of-Custody forms. The sample containers for the BNA analyses were used for the pesticide and aroclor analyses. All samples in this SDG were analyzed for only the pesticide and aroclor target compounds. All samples were analyzed according to CLP SOW SOM01.1.

No samples were identified as field blanks or field duplicates.

Sample E0027 was used as the parent sample for the pesticide matrix spike / matrix spike duplicate analyses. Sample E0016 was used as the parent sample for the aroclor matrix spike / matrix spike duplicate analyses.

Reviewed by: Allison C Harvey / Techlaw-ESAT
Date: July 26, 2006

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0002
Laboratory: Envirosystems, Inc.

1. HOLDING TIME

No problems were found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

The following pesticide samples are associated with a %Endrin breakdown greater than 20%. Endrin was not detected in the samples. Non-detected results for Endrin, Endrin aldehyde and Endrin ketone are not qualified. All detects and non-detects for sample E0009 are qualified "R" because the sample was analyzed outside the 12-hr clock.

E0001, E0002, E0003, E0004, E0005, E0006, E0007, E0008, E0009, PBLK14, PBLK15, PLCS14, PLCS15

3. CALIBRATION

The National Functional Guidelines specify that no more than 12 hours should elapse from the beginning of the CCV (instrument blank) and the injection of the last sample. Pesticide sample E0009 was analyzed 12 hours and 36 minutes after the instrument blank of the associated opening CCV. Detects and non-detects are qualified "R".

The following pesticide samples are associated with a PEM from the initial calibration with a percent difference (%D) greater than 25%. Detected results for these compounds should be qualified "J".

Beta-BHC
E0002, E0007, E0031

The following pesticide samples are associated with a PEM from the initial calibration with a percent difference (%D) greater than 25%. The compound was not detected in these samples. Non-detected compounds are qualified "UJ".

Beta-BHC
E0001, E0003, E0004, E0005, E0006, E0008, E0014, E0015, E0016, E0017, E0018, E0019, E0027, E0027MS, E0027MSD, E0028, E0029, E0030, PBLK14, PBLK15, PLCS14, PLCS15

The following pesticide samples are associated with a PEM from the initial calibration with a surrogate percent difference (%D) greater than 20%. Detected and non-detected results are not qualified based on the surrogate %D data alone.

Decachlorobiphenyl (DCB)
E0001, E0002, E0003, E0004, E0005, E0006, E0007, E0008, E0014, E0015, E0016, E0017, E0018, E0019, E0027, E0027MS, E0027MSD, E0028, E0029, E0030, E0031, PBLK14, PBLK15, PLCS14, PLCS15

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0002
Laboratory: Envirosystems, Inc.

The following pesticide samples are associated with an opening/closing continuing calibration (PEM) with a percent difference (%D) greater than 25%. Detected results for these compounds should be qualified "J".

Beta-BHC
E0002, E0007

The following pesticide samples are associated with an opening/closing continuing calibration (PEM) with a percent difference (%D) greater than 25%. The compound was not detected in these samples. Non-detected compounds are qualified "UJ".

Beta-BHC
E0001, E0003, E0004, E0005, E0006, E0008, PBLK14, PBLK15, PLCS14, PLCS15

The following pesticide samples are associated with an opening/closing continuing calibration (PEM) with percent differences (%D) greater than 25%. Detected results for these compounds should be qualified "J". Non-detected compounds are qualified "UJ".

Alpha-BHC, beta-BHC, gamma-BHC (Lindane), Endrin, 4,4-DDT
E0017, E0027MS, E0027MSD, E0029, E0030, E0031

The following pesticide samples are associated with an opening/closing continuing calibration (PEM) with percent differences (%D) greater than 25%. The compounds were not detected in these samples. Non-detected compounds are qualified "UJ". A non-detect for gamma-BHC (Lindane) in E0027 is ultimately qualified "R" due to poor MS/MSD recoveries.

Alpha-BHC, beta-BHC, gamma-BHC (Lindane), Endrin, 4,4-DDT, Methoxychlor
E0014, E0015, E0016, E0018, E0019, E0027, E0028

Methoxychlor
E0017, E0027MS, E0027MSD, E0029, E0030, E0031

The following pesticide samples are associated with an opening/closing continuing calibration (PEM) with surrogate percent differences (%D) greater than 25%. Detected and non-detected results are not qualified based on the surrogate %D data alone.

Tetrachloro-m-xylene (TCX), Decachlorobiphenyl (DCB)
E0014, E0015, E0016, E0017, E0018, E0019, E0027, E0027MS, E0027MSD, E0028, E0029, E0030, E0031

The following pesticide samples are associated with an opening/closing continuing calibration (INDA/INDB) with percent differences (%D) greater than 20%. Detected results for these compounds should be qualified "J". Non-detected compounds are qualified "UJ".

Alpha-BHC, beta-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor epoxide, Endrin ketone
E0002, E0007

delta-BHC, Endrin, Endosulfan II, 4,4-DDT, Endrin aldehyde, gamma-Chlordane
E0017, E0027MS, E0027MSD, E0029, E0030, E0031

Beta-BHC, delta-BHC, Endrin, Endosulfan II, 4,4-DDT, Methoxychlor, Endrin aldehyde, gamma-Chlordane
E0031

The following pesticide samples are associated with an opening/closing continuing calibration (INDA/INDB) with percent differences (%D) greater than 20%. The compounds were not detected in these samples. Non-detected compounds are qualified "UJ".

Alpha-BHC, beta-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor epoxide, Endrin ketone
E0001, E0003, E0004, E0005, E0006, E0008, PBLK14, PBLK15, PLCS14, PLCS15

Beta-BHC, delta-BHC, Endrin, Endosulfan II, 4,4-DDT, Methoxychlor, Endrin aldehyde, gamma-Chlordane
E0014, E0015, E0016, E0018, E0019, E0027, E0028

Beta-BHC, Methoxychlor
E0017, E0027MS, E0027MSD, E0029, E0030

The following pesticide samples are associated with an opening/closing continuing calibration (INDA/INDB) with surrogate percent differences (%D) greater than 20%. Detected and non-detected results are not qualified based on the surrogate %D data alone.

Tetrachloro-m-xylene (TCX)
E0001, E0002, E0003, E0004, E0005, E0006, E0007, E0008, PBLK14, PBLK15, PLCS14, PLCS15

Tetrachloro-m-xylene (TCX), Decachlorobiphenyl (DCB)
E0014, E0015, E0016, E0017, E0018, E0019, E0027, E0027MS, E0027MSD, E0028, E0029, E0030, E0031

The following aroclor samples are associated with an initial calibration with a Relative Standard Deviation (%RSD) exceeding 20%. The compound was not detected in these samples. Non-detected compounds are qualified "UJ". Non-detects in sample E0018 are ultimately qualified "R" due to poor surrogate recoveries.

Aroclor-1268
ABLK13, ABLK14, ALCS14, E0001, E0002, E0003, E0004, E0005, E0006, E0007, E0008, E0009, E0014, E0015, E0016, E0016MS, E0016MSD, E0017, E0018, E0019, E0027, E0028, E0029, E0030, E0031

The following aroclor samples are associated with an opening continuing calibration with a surrogate percent difference (%D) exceeding 15%. Detected and non-detected results are not qualified based on the surrogate %D data alone.

Decachlorobiphenyl (DCB)
ABLK13, ABLK14, ALCS14, E0001, E0002, E0003, E0005, E0006, E0007, E0008, E0009, E0014, E0015, E0017, E0018, E0019, E0029

The following aroclor samples are associated with an opening continuing calibration with percent difference (%D) exceeding 15%. Detected results for these compounds should be qualified "J".

Aroclor-1260
E0016MS, E0016MSD

The following aroclor samples are associated with an opening continuing calibration with percent difference (%D) exceeding 15%. The compound was not detected in these samples. Non-detected compounds are qualified "UJ". A non-detect in sample E0016 is ultimately qualified "R" due to poor MS/MSD recoveries. Non-detects in sample E0018 are ultimately qualified "R" due to poor surrogate recoveries.

Aroclor-1260
E0004, E0016, E0017, E0018, E0019, E0027, E0028, E0029, E0030, E0031

The following aroclor samples are associated with a closing continuing calibration with percent difference (%D) exceeding 50%. The compound was not detected in these samples. Non-detected compounds are qualified "UJ".

Aroclor-1260
ABLK13, ABLK14, ALCS14, E0001, E0002, E0003, E0005, E0006, E0007, E0008, E0009, E0014, E0015

4. BLANKS

The laboratory submitted 2 pesticide method blanks PBLK14 and PBLK15, both extracted on 04/18/06 along with the samples. The highest reported contaminant concentrations between the two blanks were used for the validation process.

The following pesticide samples have analyte concentrations reported below the CRQL. The associated method blanks have analyte concentrations less than the CRQL. Detected compounds

are elevated to the CRQL and qualified "U". Non-detected compounds are not qualified. A non-detect in sample E0027 is ultimately qualified "R" due to poor MS/MSD recoveries. All detects and non-detects for sample E0009 are qualified "R" because the sample was analyzed outside the 12-hr clock.

Heptachlor
E0001, E0002, E0003, E0005, E0006, E0007, E0009, E00014, E0017, E0027, E0028, E0031, PLCS14, PLCS15

5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY

The following aroclor samples have Surrogate recoveries above the upper limit (150%) of the criteria window. No compounds were detected in the sample and the non-detected compounds are not qualified.

E0027

The following aroclor samples have Surrogate recoveries below the lower limit of the criteria window and less than 10%. No compounds were detected in the sample and the non-detected compounds are qualified "R".

E0018

6A. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample E0027 was used as the parent sample for the pesticide matrix spike / matrix spike duplicate analyses. Sample E0016 was used as the parent sample for the aroclor matrix spike / matrix spike duplicate analyses.

The following pesticide sample reported %Recoveries less than 20%.

E0027MS
Heptachlor, Aldrin

E0027MSD
Gamma-BHC (Lindane), Heptachlor, Aldrin

Gamma-BHC (Lindane), Heptachlor and Aldrin were not detected in the unspiked sample E0027. Non-detects for gamma-BHC (Lindane), Heptachlor and Aldrin are qualified "R" in the unspiked sample E0027.

The following aroclor sample reported %Recoveries less than or equal to zero percent.

E0016MS, E0016MSD
Aroclor-1016, Aroclor-1260

Aroclor-1016 and Aroclor-1260 were not detected in the unspiked sample E0016. Non-detects for Aroclor-1016 and Aroclor-1260 are qualified "R" in the unspiked sample E0016.

6B. LABORATORY CONTROL SAMPLE

The following pesticide laboratory control samples have %Recoveries greater than the upper criteria limit.

PLCS14, PLCS15
Endrin, gamma-Chlordane

The detection of Endrin in samples E0027MS, E0027MSD, E0029 and E0030 are qualified "J". The detection of gamma-Chlordane in sample E0017, E0027MS, E0027MSD, E0030 and E0031 are qualified "J". Non-detects for Endrin and gamma-Chlordane in the samples are not qualified because of high LCS recoveries.

7. FIELD BLANK AND FIELD DUPLICATE

No samples were identified as field blanks or field duplicates.

Results are not qualified based upon the results of the field duplicates.

8. INTERNAL STANDARDS

Not applicable for pesticide or aroclor analyses.

9. COMPOUND IDENTIFICATION

Some pesticide compounds were improperly reported, either the presence of the pesticide was not confirmed by the second column or a confirmed pesticide detect was not reported. Copies of the associated raw data are included with the hard copy data package.

The following pesticide samples reported analytes whose presence was not confirmed by the second GC column. The analyte was either not found on the second column or the analyte was outside the retention time window and therefore, not a valid identification. Analyte concentrations were elevated to the CRQL and qualified as non-detects, "U". Non-detects for alpha-BHC, gamma-BHC (Lindane), Endrin, Endosulfan II, 4,4'-DDT, Endrin aldehyde and gamma-Chlordane were ultimately qualified "UJ" because all calibration criteria were not met.

E0015
Gamma-BHC (Lindane)

E0017
Gamma-BHC (Lindane), Aldrin, Endrin ketone

E0018
Gamma-BHC (Lindane), Heptachlor, Dieldrin, Endrin, Endosulfan II, 4,4'-DDD, Endrin ketone, Endrin aldehyde, gamma-Chlordane

E0019
Alpha-BHC, Gamma-BHC (Lindane), Heptachlor, Endosulfan I, 4,4'-DDE, Endosulfan II, 4,4'-DDD, 4,4'-DDT, Endrin ketone, Endrin aldehyde, gamma-Chlordane

E0029
Alpha-BHC, Gamma-BHC (Lindane), Heptachlor, Endosulfan I, Dieldrin, 4,4'-DDE, Endosulfan II, 4,4'-DDD, 4,4'-DDT, Endrin ketone, Endrin aldehyde, gamma-Chlordane

The following pesticide samples reported analytes that were not detected on either GC column. Analyte concentrations were elevated to the CRQL and qualified as non-detects, "U". Non-detects for gamma-BHC (Lindane) and Endrin aldehyde were ultimately qualified "UJ" because all calibration criteria were not met. Non-detects in sample E0027 were ultimately qualified "R" because of poor MS/MSD recoveries.

E0014
Gamma-BHC (Lindane), Endrin aldehyde

E0015, E0016, E0028
Endrin aldehyde

E0017
Endosulfan I

E0027
Gamma-BHC (Lindane)

The following pesticide samples failed to report analytes that were detected on both GC columns. Concentrations were calculated according to SOW SOM01.1 and reported as estimates. The detection of Heptachlor in samples E0014 and E0017 were ultimately qualified "U" due to method blank contamination. The detections of beta-BHC and delta-BHC in samples E0027 and E0028 were qualified as non-detects because Region 5 regards them as 'false positives'. The non-detects for beta-BHC in samples E0015, E0016, E0027 and E0028 were ultimately qualified "UJ" because all calibration criteria were not met. The non-detects for delta-BHC in samples E0017, E0027 and E0028 were ultimately qualified "UJ" because all calibration criteria were not met. Non-detects for Endrin and Methoxychlor in sample E0017 are ultimately qualified "UJ" because all calibration criteria were not met.

E0014
Heptachlor

E0015, E0016
Beta-BHC

E0017
Delta-BHC, Heptachlor, Endrin, Methoxychlor

E0027, E0028
Beta-BHC, delta-BHC

After reviewing the chromatograms it appears that all aroclor compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following pesticide samples have compound concentrations less than the CRQL. Detected compounds are qualified "J".

E0002, E0007
Beta-BHC

E0017
Dieldrin, 4,4'-DDD, Endosulfan sulfate, 4,4'-DDT, Endrin aldehyde, gamma-Chlordane

E0018
4,4'-DDE

E0027MS, E0027MSD
Aldrin, Endrin ketone, gamma-Chlordane

E0029
Endrin

E0030
alpha-BHC, Gamma-BHC (Lindane), Heptachlor, Heptachlor epoxide, Endosulfan I, Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, 4,4'-DDD, Endosulfan sulfate, 4,4'-DDT, Endrin aldehyde, gamma-Chlordane

E0031
Beta-BHC, delta-BHC, Heptachlor epoxide, Endosulfan I, 4,4'-DDE, Endosulfan II, 4,4'-DDD, 4,4'-DDT, gamma-Chlordane

PBLK14, PBLK15
Heptachlor

PLCS14
Gamma-BHC (Lindane)

PLCS15
Gamma-BHC (Lindane), Heptachlor epoxide, Endosulfan sulfate

The relative percent difference between analyte results for the following pesticide samples is greater than 25%. Detected compound concentrations were greater than 25% CRQL. Detected compounds are qualified "J".

E0002, E0007
Beta-BHC

E0017
4,4'-DDD, 4,4'-DDT, gamma-Chlordane

E0018
4,4'-DDE

E0027MS
gamma-BHC (Lindane), Aldrin, Dieldrin, 4,4'-DDT, Endrin ketone, gamma-Chlordane

E0027MSD
Aldrin, Dieldrin, Endrin, 4,4'-DDT

E0029
Endrin

E0031
Beta-BHC, delta-BHC, Heptachlor epoxide, Endosulfan I, 4,4'-DDE, Endosulfan II, Endosulfan sulfate, 4,4'-DDT, gamma-Chlordane

PBLK14
Heptachlor

PLCS15
Endosulfan sulfate, Gamma-Chlordane

The relative percent difference between analyte results for the following pesticide samples is greater than 25%. Detected compound concentrations were less than 25% CRQL.

Case Number: 35229
Site Name: Dunavan Oil (IL)

SDG Number: E0002
Laboratory: Envirosystems, Inc.

Detects were elevated to the CRQL and qualified "U" as non-detects. Some compounds were ultimately qualified "UJ" because all calibration criteria were not met. All detects and non-detects for sample E0009 are qualified "R" because the sample was analyzed outside the 12-hr clock.

E0001, E0005, E0006, E0007, PBLK15
Gamma-Chlordane

E0002
Endrin ketone, gamma-Chlordane

E0003
4,4'-DDE, gamma-Chlordane

E0004, E0016
Beta-BHC, Heptachlor, gamma-Chlordane

E0008
Heptachlor, gamma-Chlordane

E0009, E0027MS, E0027MSD
Beta-BHC

E0014, PBLK14
4,4'-DDE, gamma-Chlordane

E0015
Beta-BHC, Heptachlor

E0017
Beta-BHC, delta-BHC, Heptachlor epoxide, 4,4'-DDE, Endrin, Methoxychlor

E0018
Heptachlor epoxide

E0019
Methoxychlor

E0027, E0028
Beta-BHC, delta-BHC, gamma-Chlordane

E0031
Endrin, Methoxychlor, Endrin aldehyde

The relative percent difference between analyte results for the following aroclor samples is greater than 25%. Detected compounds are qualified "J".

E0016MS
Aroclor-1016

11. SYSTEM PERFORMANCE

The GC baseline for the pesticide and aroclor analyses were acceptable.

12. ADDITIONAL INFORMATION

The pesticide and aroclor analyses for the samples were requested by Region 5 after the samples containers were received by the laboratory. Sample extracts for the pesticide and aroclor analyses were obtained from the containers designated for the BNA analyses and the unused VOA vials.

No raw data or Form Is were received for the pesticide analysis of sample E0030. Results for E0030 are included in the Lotus and Excel spreadsheet, but the reviewer was unable to verify the reported concentrations.

CADRE reported the pesticide CRQLs for SOW OLM04.3 instead of SOW SOM01.1 on the Lotus and Excel spreadsheets. Only the values for detected compounds were corrected.

The CADRE and EDD spreadsheets did not include the following pesticide samples. The laboratory Form Is for these samples are included with the hard copy data package.

PLCS14, PLCS15

The CADRE and EDD spreadsheets did not include the following aroclor samples. The laboratory Form Is for these samples are included with the hard copy data package.

ALCS14

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present.)

Analytical Results (Qualified Data)

Case # 35229 SDG E0002
Site DUNAVAN OIL
Lab ENVSYS
Reviewer
Date

Number of Soil Samples 20
Number of Water Samples 0
Number of Sediment Samples 0

Sample Number	E0001		E0002		E0003		E0004		E0005	
Sampling Location	X101		X102		X103		X104		X105	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	4/11/2006		4/11/2006		4/11/2006		4/11/2006		4/11/2006	
Time Sampled										
%Moisture	18		16		18		29		13	
pH										
Dilution Factor	1.0		1.0		1.0		1.0		1.0	
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	4.1	UJ	4.0	UJ	4.1	UJ	4.8	UJ	3.9	UJ
beta-BHC	4.1	UJ	0.75	J	4.1	UJ	4.8	UJ	3.9	UJ
delta-BHC	4.1	UJ	4.0	UJ	4.1	UJ	4.8	UJ	3.9	UJ
gamma-BHC (Lindane)	4.1	UJ	4.0	UJ	4.1	UJ	4.8	UJ	3.9	UJ
Heptachlor	4.1	U	4.0	U	4.1	U	4.8	U	3.9	U
Aldrin	4.1	U	4.0	U	4.1	U	4.8	U	3.9	U
Heptachlor epoxide	4.1	UJ	4.0	UJ	4.1	UJ	4.8	UJ	3.9	UJ
Endosulfan I	4.1	U	4.0	U	4.1	U	4.8	U	3.9	U
Dieldrin	8.0	U	7.9	U	8.0	U	9.3	U	7.6	U
4,4'-DDE	8.0	U	7.9	U	8.0	U	9.3	U	7.6	U
Endrin	8.0	U	7.9	U	8.0	U	9.3	U	7.6	U
Endosulfan II	8.0	U	7.9	U	8.0	U	9.3	U	7.6	U
4,4-DDD	8.0	U	7.9	U	8.0	U	9.3	U	7.6	U
Endosulfan sulfate	8.0	U	7.9	U	8.0	U	9.3	U	7.6	U
4,4-DDT	8.0	U	7.9	U	8.0	U	9.3	U	7.6	U
Methoxychlor	41	U	40	U	41	U	48	U	39	U
Endrin ketone	8.0	UJ	7.9	UJ	8.0	UJ	9.3	UJ	7.6	UJ
Endrin aldehyde	8.0	U	7.9	U	8.0	U	9.3	U	7.6	U
alpha-Chlordane	4.1	U	4.0	U	4.1	U	4.8	U	3.9	U
gamma-Chlordane	4.1	U	4.0	U	4.1	U	4.8	U	3.9	U
Toxaphene	410	U	400	U	410	U	480	U	390	U

Analytical Results (Qualified Data)

Case # 35229 SDG . E0002
Site DUNAVAN OIL
Lab ENVSYS
Reviewer
Date

Sample Number	E0006		E0007		E0008		E0009		E0014	
Sampling Location	X106		X107		X108		X109		X110	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	4/11/2006		4/11/2006		4/11/2006		4/11/2006		4/5/2006	
Time Sampled										
%Moisture	27		29		13		28		15	
pH										
Dilution Factor	1.0		1.0		1.0		1.0		1.0	
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	4.7	UJ	4.8	UJ	3.9	UJ	4.7	R	4.0	UJ
beta-BHC	4.7	UJ	0.89	J	3.9	UJ	4.7	R	4.0	UJ
delta-BHC	4.7	UJ	4.8	UJ	3.9	UJ	4.7	R	4.0	UJ
gamma-BHC (Lindane)	4.7	UJ	4.8	UJ	3.9	UJ	4.7	R	4.0	UJ
Heptachlor	4.7	U	4.8	U	3.9	U	4.7	R	4.0	U
Aldrin	4.7	U	4.8	U	3.9	U	4.7	R	4.0	U
Heptachlor epoxide	4.7	UJ	4.8	UJ	3.9	UJ	4.7	R	4.0	U
Endosulfan I	4.7	U	4.8	U	3.9	U	4.7	R	4.0	U
Dieldrin	9.0	U	9.3	U	7.6	U	9.2	R	7.8	U
4,4'-DDE	9.0	U	9.3	U	7.6	U	9.2	R	7.8	U
Endrin	9.0	U	9.3	U	7.6	U	9.2	R	7.8	UJ
Endosulfan II	9.0	U	9.3	U	7.6	U	9.2	R	7.8	UJ
4,4'-DDD	9.0	U	9.3	U	7.6	U	9.2	R	7.8	U
Endosulfan sulfate	9.0	U	9.3	U	7.6	U	9.2	R	7.8	U
4,4'-DDT	9.0	U	9.3	U	7.6	U	9.2	R	7.8	UJ
Methoxychlor	47	U	48	U	39	U	47	R	40	UJ
Endrin ketone	9.0	UJ	9.3	UJ	7.6	UJ	9.2	R	7.8	U
Endrin aldehyde	9.0	U	9.3	U	7.6	U	9.2	R	7.8	UJ
alpha-Chlordane	4.7	U	4.8	U	3.9	U	4.7	R	4.0	U
gamma-Chlordane	4.7	U	4.8	U	3.9	U	4.7	R	4.0	UJ
Toxaphene	470	U	480	U	390	U	470	R	400	U

Analytical Results (Qualified Data)

Case # 35229 SDG E0002
Site DUNAVAN OIL
Lab ENVSYS
Reviewer
Date

Sample Number	E0015		E0016		E0017		E0018		E0019	
Sampling Location	X111		X112		X113		S101		S102	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	4/11/2006		4/12/2006		4/12/2006		4/12/2006		4/12/2006	
Time Sampled										
%Moisture	12		8		37		49		39	
pH										
Dilution Factor	1.0		1.0		1.0		1.0		1.0	
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	3.9	UJ	3.7	UJ	5.4	UJ	6.7	UJ	5.6	UJ
beta-BHC	3.9	UJ	3.7	UJ	5.4	UJ	6.7	UJ	5.6	UJ
delta-BHC	3.9	UJ	3.7	UJ	5.4	UJ	6.7	UJ	5.6	UJ
gamma-BHC (Lindane)	3.9	UJ	3.7	UJ	5.4	UJ	6.7	UJ	5.6	UJ
Heptachlor	3.9	U	3.7	U	5.4	U	6.7	U	5.6	U
Aldrin	3.9	U	3.7	U	5.4	U	6.7	U	5.6	U
Heptachlor epoxide	3.9	U	3.7	U	5.4	U	6.7	U	5.6	U
Endosulfan I	3.9	U	3.7	U	5.4	U	6.7	U	5.6	U
Dieldrin	7.5	U	7.2	U	1.7	J	13	U	11	U
4,4'-DDE	7.5	U	7.2	U	10	U	1.9	J	11	U
Endrin	7.5	UJ	7.2	UJ	10	UJ	13	UJ	11	UJ
Endosulfan II	7.5	UJ	7.2	UJ	10	UJ	13	UJ	11	UJ
4,4-DDD	7.5	U	7.2	U	1.6	J	13	U	11	U
Endosulfan sulfate	7.5	U	7.2	U	2.34	J	13	U	11	U
4,4-DDT	7.5	UJ	7.2	UJ	1.5	J	13	UJ	11	UJ
Methoxychlor	39	UJ	37	UJ	54	UJ	67	UJ	56	UJ
Endrin ketone	7.5	U	7.2	U	10	U	13	U	11	U
Endrin aldehyde	7.5	UJ	7.2	UJ	1.29	J	13	UJ	11	UJ
alpha-Chlordane	3.9	U	3.7	U	5.4	U	6.7	U	5.6	U
gamma-Chlordane	3.9	UJ	3.7	UJ	0.97	J	6.7	UJ	5.6	UJ
Toxaphene	390	U	370	U	540	U	670	U	560	U

Analytical Results (Qualified Data)

Case # 35229 SDG E0002
Site DUNAVAN OIL
Lab ENVSYS
Reviewer
Date

Sample Number	E0027		E0027MS		E0027MSD		E0028		E0029	
Sampling Location	X114		X114		X114		X115		S106	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	4/12/2006		4/12/2006		4/12/2006		4/12/2006		4/12/2006	
Time Sampled										
%Moisture	29		29		29		12		41	
pH										
Dilution Factor	1.0		1.0		1.0		1.0		1.0	
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	4.8	UJ	4.8	UJ	4.8	UJ	3.9	UJ	5.8	UJ
beta-BHC	4.8	UJ	4.8	UJ	4.8	UJ	3.9	UJ	5.8	UJ
delta-BHC	4.8	UJ	4.8	UJ	4.8	UJ	3.9	UJ	5.8	UJ
gamma-BHC (Lindane)	4.8	R	14	J	4.8	UJ	3.9	UJ	5.8	UJ
Heptachlor	4.8	R	4.8	U	4.8	U	3.9	U	5.8	U
Aldrin	4.8	R	2.3	J	2.0	J	3.9	U	5.8	U
Heptachlor epoxide	4.8	U	4.8	U	4.8	U	3.9	U	5.8	U
Endosulfan I	4.8	U	4.8	U	4.8	U	3.9	U	5.8	U
Dieldrin	9.3	U	9.3	U	29	J	7.5	U	11	U
4,4'-DDE	9.3	U	9.3	U	9.3	U	7.5	U	11	U
Endrin	9.3	UJ	9.3	UJ	33	J	7.5	UJ	11	UJ
Endosulfan II	9.3	UJ	9.3	UJ	9.3	UJ	7.5	UJ	11	UJ
4,4-DDD	9.3	U	9.3	U	9.3	U	7.5	U	11	U
Endosulfan sulfate	9.3	U	9.3	U	9.3	U	7.5	U	11	U
4,4-DDT	9.3	UJ	30	J	30	J	7.5	UJ	11	UJ
Methoxychlor	48	UJ	48	UJ	48	UJ	39	UJ	58	UJ
Endrin ketone	9.3	U	9.3	U	1.8	J	7.5	U	11	U
Endrin aldehyde	9.3	UJ	9.3	UJ	9.3	UJ	7.5	UJ	11	UJ
alpha-Chlordane	4.8	U	4.8	U	4.8	U	3.9	U	5.8	U
gamma-Chlordane	4.8	UJ	0.93	J	0.85	J	3.9	UJ	5.8	UJ
Toxaphene	480	U	480	U	480	U	390	U	580	U

Analytical Results (Qualified Data)

Case # 35229 SDG E0002
Site DUNAVAN OIL
Lab ENVSYS
Reviewer
Date

Sample Number	E0030		E0031		PBLK14		PBLK15			
Sampling Location	S107		S108							
Matrix	Soil		Soil		Soil		Soil			
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled	4/12/2006		4/12/2006							
Time Sampled										
%Moisture	48		40		0		0			
pH										
Dilution Factor	1.0		1.0		1.0		1.0			
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.80	J	5.7	UJ	3.4	UJ	3.4	UJ		
beta-BHC	6.5	UJ	1.9	J	3.4	UJ	3.4	UJ		
delta-BHC	6.5	UJ	0.86	J	3.4	UJ	3.4	UJ		
gamma-BHC (Lindane)	1.8	J	5.7	UJ	3.4	UJ	3.4	UJ		
Heptachlor	2.0	J	5.7	UJ	0.75	J	1.0	J		
Aldrin	6.5	U	5.7	U	3.4	U	3.4	U		
Heptachlor epoxide	0.69	J	2.8	J	3.4	UJ	3.4	UJ		
Endosulfan I	1.3	J	1.0	J	3.4	U	3.4	U		
Dieldrin	3.2	J	11	UJ	6.6	U	6.6	U		
4,4'-DDE	1.5	J	4.1	J	6.6	U	6.6	U		
Endrin	4.9	J	11	UJ	6.6	U	6.6	U		
Endosulfan II	1.8	J	2.3	J	6.6	U	6.6	U		
4,4'-DDD	2.2	J	6.6	UJ	6.6	U	6.6	U		
Endosulfan sulfate	1.8	J	7.2	J	6.6	U	6.6	U		
4,4'-DDT	6.1	J	11	UJ	6.6	U	6.6	U		
Methoxychlor	65	UJ	28	UJ	34	U	34	U		
Endrin ketone	13	U	11	UJ	6.6	UJ	6.6	UJ		
Endrin aldehyde	3.7	J	11	UJ	6.6	U	6.6	U		
alpha-Chlordane	6.5	U	5.7	UJ	3.4	U	3.4	U		
gamma-Chlordane	0.43	J	0.77	J	3.4	U	3.4	U		
Toxaphene	650	U	570	UJ	340	U	340	U		

Analytical Results (Qualified Data)

Case # 35229 SDG E0002
Site DUNAVAN OIL
Lab ENVSYS
Reviewer
Date

Number of Soil Samples 20
Number of Water Samples 0
Number of Sediment Samples 0

Sample Number	ABLK13		ABLK14		E0001		E0002		E0003	
Sampling Location					X101		X102		X103	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled					4/11/2006		4/11/2006		4/11/2006	
Time Sampled										
%Moisture	0		0		18		16		18	
pH					6.9		9.1		7.4	
Dilution Factor	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	33	U	33	U	40	U	39	U	40	U
Aroclor-1221	33	U	33	U	40	U	39	U	40	U
Aroclor-1232	33	U	33	U	40	U	39	U	40	U
Aroclor-1242	33	U	33	U	40	U	39	U	40	U
Aroclor-1248	33	U	33	U	40	U	39	U	40	U
Aroclor-1254	33	U	33	U	40	U	39	U	40	U
Aroclor-1260	33	UJ	33	UJ	40	UJ	39	UJ	40	UJ
Aroclor-1262	33	U	33	U	40	U	39	U	40	U
Aroclor-1268	33	UJ	33	UJ	40	UJ	39	UJ	40	UJ

Analytical Results (Qualified Data)

Case # 35229 SDG E0002
Site DUNAVAN OIL
Lab ENVSYS
Reviewer
Date

Sample Number	E0004		E0005		E0006		E0007		E0008	
Sampling Location	X104		X105		X106		X107		X108	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	4/11/2006		4/11/2006		4/11/2006		4/11/2006		4/11/2006	
Time Sampled										
%Moisture	29		13		27		29		13	
pH	7 3		8.9		9 0		7 7		8 5	
Dilution Factor	1 0		1 0		1 0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	46	U	38	U	45	U	46	U	38	U
Aroclor-1221	46	U	38	U	45	U	46	U	38	U
Aroclor-1232	46	U	38	U	45	U	46	U	38	U
Aroclor-1242	46	U	38	U	45	U	46	U	38	U
Aroclor-1248	46	U	38	U	45	U	46	U	38	U
Aroclor-1254	46	U	38	U	45	U	46	U	38	U
Aroclor-1260	46	UJ	38	UJ	45	UJ	46	UJ	38	UJ
Aroclor-1262	46	U	38	U	45	U	46	U	38	U
Aroclor-1268	46	UJ	38	UJ	45	UJ	46	UJ	38	UJ

Analytical Results (Qualified Data)

Case # 35229 SDG E0002
Site DUNAVAN OIL
Lab ENVSYS
Reviewer
Date

Sample Number	E0009		E0014		E0015		E0016		E0016MS	
Sampling Location	X109		X110		X111		X112		X112	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	4/11/2006		4/5/2006		4/11/2006		4/12/2006		4/12/2006	
Time Sampled										
%Moisture	28		15		12		8		8	
pH	8.5		7.1		8.2		8.7		8.7	
Dilution Factor	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	46	U	39	UJ	38	U	36	R	36	J
Aroclor-1221	46	U	39	U	38	U	36	U	36	U
Aroclor-1232	46	U	39	UJ	38	U	36	U	36	U
Aroclor-1242	46	U	39	U	38	U	36	U	36	U
Aroclor-1248	46	U	39	UJ	38	U	36	UJ	36	UJ
Aroclor-1254	46	U	39	U	38	U	36	U	36	U
Aroclor-1260	46	UJ	39	UJ	38	UJ	36	R	37	J
Aroclor-1262	46	U	39	U	38	U	36	U	36	U
Aroclor-1268	46	UJ	39	UJ	38	UJ	36	UJ	36	UJ

Analytical Results (Qualified Data)

Case # 35229 SDG E0002
Site DUNAVAN OIL
Lab ENVSYS
Reviewer :
Date :

Sample Number	E0016MSD		E0017		E0018		E0019		E0027	
Sampling Location	X112		X113		S101		S102		X114	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	4/12/2006		4/12/2006		4/12/2006		4/12/2006		4/12/2006	
Time Sampled										
%Moisture	8		37		49		39		29	
pH	8.7		7.8		7.8		7.6		8.3	
Dilution Factor	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	41		52	UJ	65	R	54	U	46	U
Aroclor-1221	36	U	52	U	65	R	54	U	46	U
Aroclor-1232	36	U	52	U	65	R	54	U	46	U
Aroclor-1242	36	U	52	U	65	R	54	U	46	U
Aroclor-1248	36	U	52	U	65	R	54	U	46	U
Aroclor-1254	36	U	52	U	65	R	54	U	46	U
Aroclor-1260	39	J	52	UJ	65	R	54	UJ	46	UJ
Aroclor-1262	36	U	52	U	65	R	54	U	46	U
Aroclor-1268	36	UJ	52	UJ	65	R	54	UJ	46	UJ

Analytical Results (Qualified Data)

Case #. 35229 SDG E0002
Site DUNAVAN OIL
Lab ENVSYS
Reviewer
Date

Sample Number	E0028		E0029		E0030		E0031			
Sampling Location	X115		S106		S107		S108			
Matrix	Soil		Soil		Soil		Soil			
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled	4/12/2006		4/12/2006		4/12/2006		4/12/2006			
Time Sampled										
%Moisture	12		41		48		40			
pH	8 5		6.8		7 8		7 5			
Dilution Factor	1 0		1.0		1 0		1 0			
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	38	U	56	U	63	U	55	U		
Aroclor-1221	38	U	56	U	63	U	55	U		
Aroclor-1232	38	U	56	U	63	U	55	U		
Aroclor-1242	38	U	56	U	63	U	55	U		
Aroclor-1248	38	U	56	U	63	U	55	U		
Aroclor-1254	38	U	56	U	63	U	55	U		
Aroclor-1260	38	UJ	56	UJ	63	UJ	55	UJ		
Aroclor-1262	38	U	56	U	63	U	55	U		
Aroclor-1268	38	UJ	56	UJ	63	UJ	55	UJ		

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 6-16-06

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: Dunavan Oil (IL)

CASE NUMBER: 35229 SDG NUMBER: E0002

Number and Type of Samples: 20 Soil Samples

Sample Numbers: E0001 through E0009, E0014 through E0018, E0019, E0027 through E0031

Laboratory: Envirosystems, Inc. Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Contract Laboratory Program

Sample Delivery Group (SDG) Cover Sheet

SDG Number E0002

Laboratory Name **ENVIROSYSTEMS, INC** Laboratory Code **ENVSYS**

Contract No. **EP-W-05-033** Case No. 35229

Analysis Price _____ SDG Turnaround 21 DAYS

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E0001	7) E0007	13) E0017	19) E0019
2) E0002	8) E0008	14) E0018	20) E0031
3) E0003	9) E0009	15) E0027	~~21)~~
4) E0004	10) E0014	16) E0028	22)
5) E0005	11) E0015	17) E0029	23) PL 5/30/06
6) E0006	12) E0016	18) E0030	~~24)~~

E0001	E0031
First Sample in SDG	Last Sample in SDG
4/12/06	4/14/06
First Sample Receipt Date	Last Sample Receipt Date

Note: There are a maximum of 20 field samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).

Signature Paul Lerch Date 5/30/06

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229
DAS No: 50002
SDG No: E0001

Date Shipped:	4/11/2006
Carrier Name:	UPS
Airbill:	1Z6215892210024099
Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330

Chain of Custody Record

	Relinquished By	(Date / Time)	Received By	(Date / Time)
1	[illegible]	4/11/06 4:30pm	Barbara Cook	4/12/06 10:00
2				
3				
4				

Sampler Signature: [illegible]

For Lab Use Only
Lab Contract No: EPW05033
Unit Price:
Transfer To: BC 4/12/06
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0001	Soil/Sediment/ Lance Range	L/G	VOA (21)	304154 (1)	X101	S: 4/11/2006	8:45	ME0001	
E0002	Soil/Sediment/ Lance Range	L/G	VOA (21)	304157 (1)	X102	S: 4/11/2006	10:00	ME0002	
E0003	Soil/Sediment/ Lance Range	L/G	VOA (21)	304162 (1)	X103	S: 4/11/2006	10:50	ME0003	
E0004	Soil/Sediment/ Lance Range	L/G	VOA (21)	304166 (1)	X104	S: 4/11/2006	11:35	ME0004	
E0005	Soil/Sediment/ Lance Range	L/G	VOA (21)	304170 (1)	X105	S: 4/11/2006	12:15	ME0005	
E0006	Soil/Sediment/ Lance Range	L/G	VOA (21)	304174 (1)	X106	S: 4/11/2006	13:10	ME0006	
E0007	Soil/Sediment/ Lance Range	L/G	VOA (21)	304178 (1)	X107	S: 4/11/2006	14:00	ME0007	
E0008	Soil/Sediment/ Lance Range	L/G	VOA (21)	304182 (1)	X108	S: 4/11/2006	15:05	ME0008	
E0009	Soil/Sediment/ Lance Range	L/G	VOA (21)	304186 (1)	X109	S: 4/11/2006	15:40	ME0009	

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3°C	Chain of Custody Seal Number: 82812
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓
VOA = CLP TCL Volatiles				

TR Number: 5-314975591-041106-0002

3°C cooler

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr [illegible] ntilly, VA 20151-3819; Phone 703/818-4200; Fax 703/84[illegible]

FZV5.1.047 Page [illegible] of 1

SDG No. E0002

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229
DAS No: E0010 100
SDG No: E0001 / ~~E0011~~

Date Shipped: 4/12/2006	Chain of Custody Record	Sampler Signature: Lance Range	For Lab Use Only
Carrier Name: UPS	Relinquished By (Date / Time)	Received By (Date / Time)	Lab Contract No: EPW05033
Airbill: 1Z6215892210024124	1 Terry Wirkle 4/12/06 1735	Barbara Crook 4/13/06 10:30	Unit Price:
Shipped to: Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330	2		Transfer To: BC 4/13/06
	3		Lab Contract No:
	4		Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0010	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	304188 (HCL), 304189 (HCL), 304190 (HCL), 304191 (HCL), 304192 (HCL), 304193, 304194 (12)	G101	S: 4/11/2006	16:45	ME0010	
E0011	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263353 (HCL), 263354 (HCL), 263355 (HCL), 263356 (HCL), 263357 (HCL), 263358, 263359 (12)	G102	S: 4/11/2006	17:25	ME0011	
E0013	Potable Well/ Lance Range	L/G	CLP TVOA (21), CLP TVSIM (21)	304198 (HCL), 304199 (HCL) (4)	Trip Blank 1	S: 4/5/2006	10:00		
E0014	Soil/Sediment/ Lance Range	L/G	VOA (21)	304200 (1)	X110	S: 4/5/2006	8:50	ME0014	
E0015	Soil/Sediment/ Lance Range	L/G	VOA (21)	263368 (1)	X111	S: 4/5/2006	9:50	ME0015	
E0016	Soil/Sediment/ Lance Range	L/G	VOA (21)	263372 (1)	X112	S: 4/12/2006	9:50	ME0016	
E0017	Soil/Sediment/ Lance Range	L/G	VOA (21)	263376 (1)	X113	S: 4/12/2006	10:40	ME0017	
E0018	Sediment/ Lance Range	L/G	VOA (21)	263379, 263380 (2)	S101	S: 4/12/2006	12:30	ME0018	

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: E0014, E0016, E0020	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3°C	Chain of Custody Seal Number: 82813 - 82815
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

CLP ARO = CLP TCL PCB (Aroclors), CLP PEST = CLP TCL Pesticide, CLP SVOA = CLP TCL Semivolatile, CLP SVSIM = CLP TCL Semivolatiles-SIM, CLP TVOA = CLP TCL Trace Volatiles, CLP TVSIM = CLP TCL Trace Volatiles-SIM, VOA = CLP TCL Volatiles

TR Number: 5-314975591-041206-0003

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Co Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229
DAS No: E0002
SDG No: E0001 / E0010

Date Shipped:	4/13/2006
Carrier Name:	UPS
Airbill:	1Z6215892210024179
Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Tony Lenhart	4/13/06 1200	Barbara Crook	4/14/06 1000
2			
3			
4			

Sampler Signature: Lance Range

For Lab Use Only
Lab Contract No: EPW05033
Unit Price:
Transfer To: PV 4/14/06
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0015	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	263367 (1)	X111	S: 4/5/2006	9:50	ME0015	
E0016	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	263371 (1)	X112	S: 4/12/2006	9:50	ME0016	
E0017	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	263375 (1)	X113	S: 4/12/2006	10:40	ME0017	
E0018	Sediment/ Lance Range	L/G	CLP SVOA (21)	263381 (1)	S101	S: 4/12/2006	12:30	ME0018	
E0019	Sediment/ Lance Range	L/G	CLP SVOA (21)	263383 (1)	S102	S: 4/12/2006	12:20	ME0019	
E0022	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263290 (HCL), 263291 (HCL), 263292 (HCL), 263293 (HCL), 263294 (HCL), 263295, 263296 (12)	Field Blank	S: 4/12/2006	14:30	ME0022	
E0023	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263968 (HCL), 263969 (HCL), 263970 (HCL), 263971 (HCL), 263972 (HCL), 263973, 263974 (12)	G104	S: 4/12/2006	14:20	ME0023	

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E0016, E0024, E0038		3°C	82817-82820
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓

CLP ARO = CLP TCL PCB (Aroclors), CLP PEST = CLP TCL Pesticide, CLP SVOA = CLP TCL Semivolatile, CLP SVSIM = CLP TCL Semivolatiles-SIM, CLP TVOA = CLP TCL Trace Volatiles, CLP TVSIM = CLP TCL Trace Volatiles-SIM, VOA = CLP TCL Volatiles

TR Number: 5-314975591-041306-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to. Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4600

LABORATORY COPY

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 35229
DAS No: E0092
SDG No: ~~E0001~~ / E0010

Date Shipped:	4/13/2006
Carrier Name:	UPS
Airbill:	1Z6215892210024179
Shipped to:	Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	4/13/06 1200	Barbara Crook	4/14/06 10:00
2			
3			
4			

Sampler Signature: Lance Range

For Lab Use Only

Lab Contract No: EPW05033
Unit Price:
Transfer To: PL
Lab Contract No: 4/14/06
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0024	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263978 (HCL), 263979 (HCL), 263980 (HCL), 263981 (HCL), 263982 (HCL), 263983, 263984 (12)	G189	S: 4/12/2006 14:20	ME0024	5-263983 BROKEN Cr/Hg
E0025	Potable Well/ Lance Range	L/G	CLP ARO (21), CLP PEST (21), CLP SVOA (21), CLP SVSIM (21), CLP TVOA (21), CLP TVSIM (21)	263988 (HCL), 263989 (HCL), 263990 (HCL), 263991 (HCL), 263992 (HCL), 263993, 263994 (12)	G105	S: 4/5/2006 14:50	ME0025	5-263992 BROKEN V/AL
E0026	Potable Well/ Lance Range	L/G	CLP TVOA (21), CLP TVSIM (21)	263998 (HCL), 263999 (HCL) (4)	Trip Blank 2	S: 4/12/2006 16:00		
E0027	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	263300 (1)	X114	S: 4/12/2006 13:55	ME0027	
E0028	Soil/Sediment/ Lance Range	L/G	CLP SVOA (21)	263455 (1)	X115	S: 4/12/2006 16:55	ME0028	
E0029	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263458, 263459, 263460 (3)	S106	S: 4/12/2006 17:20	ME0029	
E0030	Sediment/ Paul Mason	L/G	CLP SVOA (21), VOA (21)	263462, 263463, 263464 (3)	S107	S: 4/12/2006 17:40	ME0030	
E0031	Sediment/ Lance Range	L/G	CLP SVOA (21), VOA (21)	263466, 263467, 263468 (3)	S108	S: 4/12/2006 18:00	ME0031	

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E0016, E0024, E0038		3°C	82817-82820

Analysis Key: Concentration: L = Low, M = Low/Medium, H = High Type/Designate: Composite = C, Grab = G Custody Seal Intact? ✓ Shipment Iced? ✓

CLP ARO = CLP TCL PCB (Aroclors), CLP PEST = CLP TCL Pesticide, CLP SVOA = CLP TCL Semivolatile, CLP SVSIM = CLP TCL Semivolatiles-SIM, CLP TVOA = CLP TCL Trace Volatiles, CLP TVSIM = CLP TCL Trace Volatiles-SIM, VOA = CLP TCL Volatiles

TR Number: 5-314975591-041306-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; F 703/818-

LABORATORY COPY

SDG NARRATIVE

LABORATORY NAME: ENVIROSYSTEMS, INC.

CASE #: 35229 SDG #: E0002 REGION: 5

CONTRACT: EPW05033

DATE SAMPLES RECEIVED AT LABORATORY: 12-14 APRIL 2006

SAMPLE ANALYSES INCLUDED IN THIS REPORT:

EPA SAMPLE #	LAB ID#	ANALYSIS	MATRIX
E0001	0060408-01	PEST,ARO	SOIL
E0002	0060408-02	PEST,ARO	SOIL
E0003	0060408-03	PEST,ARO	SOIL
E0004	0060408-04	PEST,ARO	SOIL
E0005	0060408-05	PEST,ARO	SOIL
E0006	0060408-06	PEST,ARO	SOIL
E0007	0060408-07	PEST,ARO	SOIL
E0008	0060408-08	PEST,ARO	SOIL
E0009	0060408-09	PEST,ARO	SOIL
E0014	0060408-10	PEST,ARO	SOIL
E0015	0060408-11	PEST,ARO	SOIL
E0016	0060408-12	PEST,ARO	SOIL
E0017	0060408-13	PEST,ARO	SOIL
E0018	0060408-14	PEST,ARO	SOIL
E0019	0060408-15	PEST,ARO	SOIL
E0027	0060408-16	PEST,ARO	SOIL
E0028	0060408-17	PEST,ARO	SOIL
E0029	0060408-18	PEST,ARO	SOIL
E0030	0060408-19	PEST,ARO	SOIL
E0031	0060408-20	PEST,ARO	SOIL

Matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on sample E0027

Samples for this SDG were analyzed by EPA SOW SOM01.1 for multi-media multi-concentration organics.

The cooler temperature was measured to be 2-3 degrees C.

PESTICIDES SECTION:

The primary analytical column was a Restek RTXCLP, 0.53 mm ID, 0.50 micron film thickness column. Confirmation analysis was performed using a Restek RTXCLP2, 0.53 mm ID, 0.42 micron film thickness GC column.

All the surrogate recoveries were within QC limits.

All the MS/MSD recoveries were and %RSD were compliant on one column, however fine recoveries out of 12 were outside the QC limit on the second column.

Four and three out of the fourteen recoveries were outside QC limits in PLCS14 and PLCS15 respectively.

All other QC criteria were met for all samples in this SDG.

Manual integrations were performed on the following samples and/or standards due to poor peak shape, coelution and/or low response: PEM05, PIBLK06, PLCS14, E0006, and E0007.

AROCLOR SECTION:

The primary analytical column was a Restek RTXCLP, 0.53 mm ID, 0.50 micron film thickness column. Confirmation analysis was performed using a Restek RTXCLP2, 0.53 mm ID, 0.42 micron film thickness GC column.

Surrogate recoveries for sample E0018 had both surrogates out of QC limits.

LCS data are compliant. However, MSD recovery is non compliant due to spiking error by extraction analyst.

All other QC criteria were met for all samples in this SDG.

I CERTIFY THAT THIS SAMPLE DATA PACKAGE IS IN COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE CONTRACT, BOTH TECHNICALLY AND FOR COMPLETENESS, FOR OTHER THAN THE CONDITIONS DETAILED ABOVE. RELEASE OF THE DATA CONTAINED IN THIS HARDCOPY SAMPLE DATA PACKAGE AND IN THE ELECTRONIC DATA DELIVERABLE HAS BEEN AUTHORIZED BY THE LABORATORY MANAGER OR THE MANAGER'S DESIGNEE, AS VERIFIED BY THE FOLLOWING SIGNATURE:

Dr. Mohan Khare
President/CEO

DATE: 6/15/06
15 JUNE 2006

Envirosystems, Inc.

From: Maruska, Gale [gmaruska@fedcsc.com]
Sent: Monday, April 17, 2006 3:20 PM
To: Barbara Crook (E-mail)
Cc: Mark Wagner (E-mail); Tony Wasilewski (E-mail); Carlene Thomas (E-mail); Howard Pham (E-mail); Warren Layne (E-mail)
Subject: Region 05 | Case 35229 | Lab ENVSYS | Discrepancies with tags, jars, and/or TR/COC | FINAL

Paul,

Issue 1: The Traffic Reports have 3 pages of reports with E for sample numbers, and 2 traffic reports that have EPA samples with X for sample numbers.
Resolution Issue 1: Per Region 5:
. On the TR number 5-314975791-041106-0003, the sample numbers indicated as X101-X109 will be the same as sample numbers of E0001-E0009 . On the TR number 5-314975791-041106-0001, the sample numbers indicated as X116-X118 will be the same as sample number E0032-E0034.
. On the TR number 5-314975791-041106-0002, the sample numbers indicated as X110 will be the same number as E0040, X111-X113 will be the same as E0015-E0017, X114-X115 will be the same number as E0027-E0028.
All these sample bottles were designated using as determination the percentage of moisture.

Issue 2: The samples were labeled for BNA only. The Lab has enough for Pest and Aroclors, can they use the samples for this purpose?
Resolution Issue 2: Per Region 5, all soil samples are to be run for pest and pcb.

Please let me know if you have any questions.

Gale E. Maruska
Computer Sciences Corporation
Environmental Scientist
ST&R Coordinator Regions 5, 7 & 10
gmaruska@fedcsc.com
Phone(703)818-4125; Fax(703)818-4601; Alternate Fax(703)818-4602

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

-----Original Message-----
From: Pham.Howard@epamail.epa.gov [mailto:Pham.Howard@epamail.epa.gov]
Sent: Monday, April 17, 2006 3:59 PM
To: Maruska, Gale
Cc: thomas.carlene@epamail.epa.gov; layne.warren@epamail.epa.gov;roc Tony.Wasilewski@epa.state.il.us
Subject: Re: FW: Region 05 | Case 35229 | Lab ENVSYS | Discrepancies with tags , jars, and/or TR/COC

Hi Gale,

I spoke with Tony and our resolution listed as the following:

. On the TR number 5-314975791-041106-0003, the sample numbers indicated as ~~X101~~ X100 PL 6/15/06
X109 will be the same as sample numbers of E0001-E0009 . On the TR number

00658

5-314975791-041106-0001, the sample numbers indicated as X116-X118 will be the same as sample number E0032-E0034.
. On the TR number 5-314975791-041106-0002, the sample numbers indicated as X110 will be the same number as E0040, X111-X113 will be the same as E0015-E0017, X114-X115 will be the same number as E0027-E0028.
All these sample bottles were designated using as determination the percentage of moisture.
If you have any further questions, please contact me.

Howard Pham, Chemist/CLP PO
U.S. EPA, Region 5 (SMF-4J)
77 West Jackson Blvd.
Chicago, IL. 60604
(312) 353-2310
(312) 353-9281 (fax)
pham.howard@epa.gov

"Maruska, Gale"
<gmaruska@fedcsc
.com>

04/17/2006 08:26 AM

To
Carlene Thomas/R5/USEPA/US@EPA,
Howard Pham/R5/USEPA/US@EPA,
Warren Layne/R5/USEPA/US Subject
FW: Region 05 | Case 35229 | Lab
ENVSYS | Discrepancies with tags ,
jars, and/or TR/COC

Please confirm the resolutions provided by Tony.

thanks,
Gale

yes all soil samples are to be run for pest and pcb.

-----Original Message-----
From: Tony Wasilewski [mailto:Tony.Wasilewski@epa.state.il.us]
Sent: Monday, April 17, 2006 8:38 AM
To: gmaruska@fedcsc.com
Subject: Re: Region 05 | Case 35229 | Lab ENVSYS | Discrepancies with tags, ja rs, and/or TR/COC

The traffic report with X corresponds with the traffic report with E such as X101 on one traffic report corresponds with X101 on the other traffic report and so on.

Tony Wasilewski, Project Manager, OSE
Illinois Environmental Protection Agency
1021 N. Grand Ave. East
P.O. Box 19276
Springfield, IL 62794-9276
217-557-3200, Fax 217-782-3258
epa4545@epa.state.il.us

-----Original Message-----
From: Maruska, Gale
Sent: Friday, April 14, 2006 10:59 AM
To: Mark Wagner (E-mail)
Cc: Carlene Thomas (E-mail); Howard Pham (E-mail); Warren Layne (E-mail)
Subject: Region 05 | Case 35229 | Lab ENVSYS | Issue Discrepancies with tags, jars, and/or TR/COC

PV
01161
6/15/06

00659

ENVSYS has sent the following issue for samples received for Case 35229:

Issue: The samples were labeled for BNA only. The Lab has enough for Pest and Aroclors, can they use the samples for this purpose?

The sample numbers are as follows: E0001-E0009, E0014-E0019, E0030-E0034, E0036-E0040, AND E0027, E0029.

Please advise.
Gale E. Maruska
Computer Sciences Corporation
Environmental Scientist
ST&R Coordinator Regions 5, 7 & 10
gmaruska@fedcsc.com
Phone(703)818-4125; Fax(703)818-4601; Alternate Fax(703)818-4602

-----Original Message-----
From: Envircsystems [mailto:envirosystems@gmail.com]On Behalf Of Envirosystems, Inc.
Sent: Friday, April 14, 2006 10:33 AM
To: 'Maruska, Gale'
Subject: Samples for Case 35229

Gale,

Issue:

Samples labeled for Case 35229 for BNA , we have enough for Pest and Aroclors, can we use the samples for this purpose. Here are the sample numbers. Thank you. Paul Lewicki--

E0001-E0009, E0014-E0019, E0030-E0034, E0036-E0040, AND E0027, E0029.

-----Original Message-----
From: Maruska, Gale
Sent: Friday, April 14, 2006 9:11 AM
To: Mark Wagner (E-mail)
Cc: Carlene Thomas (E-mail); Howard Pham (E-mail); Warren Layne (E-mail)
Subject: Region 05 | Case 35229 | Lab ENVSYS | Discrepancies with tags,

ENVSYS has sent the following issue for samples received for Case 35229:

Issue: The Traffic Reports have 3 pages of reports with E for sample numbers, and 2 traffic reports that have EPA samples with X for sample numbers.

Please advise.
Gale E. Maruska
Computer Sciences Corporation
Environmental Scientist
ST&R Coordinator Regions 5, 7 & 10
gmaruska@fedcsc.com
Phone(703)818-4125; Fax(703)818-4601; Alternate Fax(703)818-4602

-----Original Message-----
From: Envirosystems [mailto:envirosystems@gmail.com]On Behalf Of Envirosystems, Inc.
Sent: Thursday, April 13, 2006 5:31 PM
To: 'Maruska, Gale'
Subject: Case 35229 SDG unknown

Gale,

Issue,

Case 35229 traffic reports for the case have 3 pages of reports for E for sample numbers, and then I have 2 traffic reports that have EPA samples with X for sample numbers. Let me know what you want me to do. Paul-

PV 6/13/06

00660

2P - FORM II PEST-2
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0002

GC Column (1): RTXCLP ID: 0.53 (mm) GC Column (2): RTXCLP2 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	E0001	82	86	92	84			0
02	E0002	103	108	116	101			0
03	E0003	68	73	76	71			0
04	E0004	83	85	92	85			0
05	E0005	77	84	87	80			0
06	E0006	91	94	100	92			0
07	E0007	91	97	96	89			0
08	E0008	88	94	92	85			0
09	E0009	78	85	86	80			0
10	E0014	39	53	37	57			0
11	E0015	38	44	36	53			0
12	E0016	38	44	40	52			0
13	E0017	50	54	46	60			0
14	E0018	53	55	50	64			0
15	E0019	49	54	43	60			0
16	E0027	45	51	46	61			0
17	E0027MS	60	69	63	81			0
18	E0027MSD	66	78	63	90			0
19	E0028	41	48	40	55			0
20	E0029	59	59	66	80			0
21	E0030	88	56	147	150			0
22	E0031	83	88	91	144			0
23	PBLK14	96	101	102	99			0
24	PBLK15	93	104	100	99			0
25	PLCS14	87	92	93	86			0
26	PLCS15	74	76	77	76			0
27								
28								
29								
30								

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

\# Column to be used to flag recovery values
* Value outside of QC limits
D Surrogate diluted out

0013

3H - FORM III PEST-2
SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0002

Matrix Spike - EPA Sample No.: E0027

Instrument ID: HP90D GC Column: RTXCLP ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
gamma-BHC (Lindane)	24	0.51	14	57	46-127
Heptachlor	24	0.62	15	61	35-130
Aldrin	24	ND	14	60	34-132
Dieldrin	47	ND	29	62	31-134
Endrin	47	ND	34	72	42-120
4,4'-DDT	47	ND	30	64	23-134

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
gamma-BHC (Lindane)	24	15	62	8	0-50	46-127
Heptachlor	24	16	65	6	0-31	35-130
Aldrin	24	15	64	6	0-43	34-132
Dieldrin	47	29	62	0	0-38	31-134
Endrin	47	33	70	3	0-45	42-120
4,4'-DDT	47	30	64	0	0-50	23-134

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

3H - FORM III PEST-2
SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0002

Matrix Spike - EPA Sample No.: E0027

Instrument ID: HP90D GC Column: RTXCLP2 ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
gamma-BHC (Lindane)	24	ND	18	77	46-127
Heptachlor	24	ND	ND	*	35-130
Aldrin	24	ND	2.3	10 *	34-132
Dieldrin	47	ND	38	81	31-134
Endrin	47	ND	41	87	42-120
4,4'-DDT	47	ND	38	81	23-134

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
gamma-BHC (Lindane)	24	ND	*		0-50	46-127
Heptachlor	24	ND	*		0-31	35-130
Aldrin	24	2.0	9 *	11	0-43	34-132
Dieldrin	47	37	79	3	0-38	31-134
Endrin	47	42	90	3	0-45	42-120
4,4'-DDT	47	38	81	0	0-50	23-134

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 4 outside limits
Spike Recovery: 2 out of 12 outside limits

COMMENTS: _____

3M - FORM III PEST-4
SOIL PESTICIDE LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

PLCS14

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0002

Lab Sample ID: 0D61801-BS1 LCS Lot No.: P-2324

Date Extracted: 04/18/2006 Date Analyzed (1): 04/19/2006

Instrument ID (1): HP90D GC Column (1): RTXCLP ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC #	QC LIMITS
gamma-BHC (Lindane)	1.7	1.6	96	50-120
Heptachlor epoxide	1.7	1.8	108	50-150
Dieldrin	3.3	3.7	111	30-130
4,4'-DDE	3.3	4.0	120	50-150
Endrin	3.3	4.4	132 *	50-120
Endosulfan sulfate	3.3	3.4	102	50-120
gamma-Chlordane	1.7	2.9	174 *	30-130

Instrument ID (2): HP90D GC Column (2): RTXCLP2 ID: 0.53 (mm)

Date Analyzed (2): 04/19/2006

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC #	QC LIMITS
gamma-BHC (Lindane)	1.7	1.9	114	50-120
Heptachlor epoxide	1.7	2.1	126	50-150
Dieldrin	3.3	4.0	120	30-130
4,4'-DDE	3.3	3.9	117	50-150
Endrin	3.3	5.1	153 *	50-120
Endosulfan sulfate	3.3	3.4	102	50-120
gamma-Chlordane	1.7	2.6	156 *	30-130

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits

LCS Recovery: 4 out of 14 outside limits

COMMENTS:

3M - FORM III PEST-4
SOIL PESTICIDE LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

PLCS15

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0002

Lab Sample ID: 0D61801-BS2 LCS Lot No.: P-2324

Date Extracted: 04/18/2006 Date Analyzed (1): 04/19/2006

Instrument ID (1): HP90D GC Column (1): RTXCLP ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC #	QC LIMITS
gamma-BHC (Lindane)	1.7	1.4	84	50-120
Heptachlor epoxide	1.7	1.6	96	50-150
Dieldrin	3.3	3.4	102	30-130
4,4'-DDE	3.3	3.8	114	50-150
Endrin	3.3	4.0	120	50-120
Endosulfan sulfate	3.3	2.3	69	50-120
gamma-Chlordane	1.7	3.0	180 *	30-130

Instrument ID (2): HP90D GC Column (2): RTXCLP2 ID: 0.53 (mm)

Date Analyzed (2): 04/19/2006

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC #	QC LIMITS
gamma-BHC (Lindane)	1.7	1.6	96	50-120
Heptachlor epoxide	1.7	1.9	114	50-150
Dieldrin	3.3	3.8	114	30-130
4,4'-DDE	3.3	3.8	114	50-150
Endrin	3.3	5.0	150 *	50-120
Endosulfan sulfate	3.3	3.1	93	50-120
gamma-Chlordane	1.7	2.2	132 *	30-130

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits

LCS Recovery: 3 out of 14 outside limits

COMMENTS:

4E - FORM IV PEST
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.
PBLK14

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0002

Lab File ID: 0000078R.0040.ZED Lab Sample ID: 0D61801-BLK1

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 04/18/2006

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

Date Analyzed (1): 04/19/2006 Date Analyzed (2): 04/19/2006

Time Analyzed (1): 1726 Time Analyzed (2): 1726

Instrument ID (1): HP90D Instrument ID (2): HP90D

GC Column(1): RTXCLP ID: 0.53 (mm) GC Column(2): RTXCLP2 ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	PLCS14	0D61801-BS1	04/19/2006	04/19/2006
02	PLCS15	0D61801-BS2	04/19/2006	04/19/2006
03	E0027MS	0D61801-MS1	04/21/2006	04/21/2006
04	E0027MSD	0D61801-MSD1	04/21/2006	04/21/2006
05	E0001	0060408-01	04/19/2006	04/19/2006
06	E0002	0060408-02	04/19/2006	04/19/2006
07	E0003	0060408-03	04/19/2006	04/19/2006
08	E0004	0060408-04	04/19/2006	04/19/2006
09	E0005	0060408-05	04/19/2006	04/19/2006
10	E0006	0060408-06	04/19/2006	04/19/2006
11	E0007	0060408-07	04/19/2006	04/19/2006
12	E0008	0060408-08	04/19/2006	04/19/2006
13	E0009	0060408-09	04/20/2006	04/20/2006
14	E0014	0060408-10	04/21/2006	04/21/2006
15	E0015	0060408-11	04/21/2006	04/21/2006
16	E0016	0060408-12	04/21/2006	04/21/2006
17	E0017	0060408-13	04/21/2006	04/21/2006
18	E0018	0060408-14	04/21/2006	04/21/2006
19	E0019	0060408-15	04/21/2006	04/21/2006
20	E0027	0060408-16	04/21/2006	04/21/2006
21	E0028	0060408-17	04/21/2006	04/21/2006
22	E0029	0060408-18	04/21/2006	04/21/2006
23	E0030	0060408-19	04/21/2006	04/21/2006
24	E0031	0060408-20	04/21/2006	04/21/2006
25				
26				

COMMENTS:

018

SOM01.1 (5/2005)

4E - FORM IV PEST
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK15

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0002

Lab File ID: 0000078R.0039.ZED Lab Sample ID: 0D61801-BLK2

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 04/18/2006

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

Date Analyzed (1): 04/19/2006 Date Analyzed (2): 04/19/2006

Time Analyzed (1): 1647 Time Analyzed (2): 1647

Instrument ID (1): HP9OD Instrument ID (2): HP9OD

GC Column(1): RTXCLP ID: 0.53 (mm) GC Column(2): RTXCLP2 ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	PLCS14	0D61801-BS1	04/19/2006	04/19/2006
02	PLCS15	0D61801-BS2	04/19/2006	04/19/2006
03	E0027MS	0D61801-MS1	04/21/2006	04/21/2006
04	E0027MSD	0D61801-MSD1	04/21/2006	04/21/2006
05	E0001	0060408-01	04/19/2006	04/19/2006
06	E0002	0060408-02	04/19/2006	04/19/2006
07	E0003	0060408-03	04/19/2006	04/19/2006
08	E0004	0060408-04	04/19/2006	04/19/2006
09	E0005	0060408-05	04/19/2006	04/19/2006
10	E0006	0060408-06	04/19/2006	04/19/2006
11	E0007	0060408-07	04/19/2006	04/19/2006
12	E0008	0060408-08	04/19/2006	04/19/2006
13	E0009	0060408-09	04/20/2006	04/20/2006
14	E0014	0060408-10	04/21/2006	04/21/2006
15	E0015	0060408-11	04/21/2006	04/21/2006
16	E0016	0060408-12	04/21/2006	04/21/2006
17	E0017	0060408-13	04/21/2006	04/21/2006
18	E0018	0060408-14	04/21/2006	04/21/2006
19	E0019	0060408-15	04/21/2006	04/21/2006
20	E0027	0060408-16	04/21/2006	04/21/2006
21	E0028	0060408-17	04/21/2006	04/21/2006
22	E0029	0060408-18	04/21/2006	04/21/2006
23	E0030	0060408-19	04/21/2006	04/21/2006
24	E0031	0060408-20	04/21/2006	04/21/2006
25				
26				

COMMENTS:

019

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
PLCS14(1)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0002

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D61801-BS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0000078F.0042.ZED

% Moisture: Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 04/18/2006

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/19/2006

Injection Volume: 0.1 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	13	B
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.6	J
76-44-8	Heptachlor	~~0.68~~ 1.7	~~JBPU~~
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.8	
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.7	
72-55-9	4,4'-DDE	4.0	B
72-20-8	Endrin	4.4	
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.4	
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	2.9	B
8001-35-2	Toxaphene	170	U

ACH
7-13-06

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCS14(2)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0002

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D61801-BS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0000078R.0042.ZED

% Moisture: Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 04/18/2006

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/19/2006

Injection Volume: 0.1 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.9	B
76-44-8	Heptachlor	~~0.39~~ 1.7	~~JB~~ U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	2.1	B
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	4.0	B
72-55-9	4,4'-DDE	3.9	B
72-20-8	Endrin	5.1	
33213-65-9	Endosulfan II	0.51	JB
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.4	
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	0.41	JB
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	0.34	JB
5103-74-2	gamma-Chlordane	2.6	B
8001-35-2	Toxaphene	170	U

ACH
7-13-06

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCS15(1)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0002

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D61801-BS2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0000078F.0041.ZED

% Moisture: Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 04/18/2006

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/19/2006

Injection Volume: 0.1 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	2.4	B
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.4	J
76-44-8	Heptachlor	0.~~76~~ 17	~~JB~~ U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.6	J
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.4	
72-55-9	4,4'-DDE	3.8	B
72-20-8	Endrin	4.0	
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	2.3	JP
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	3.0	BP
8001-35-2	Toxaphene	170	U

ACH 7-13-06

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
PLCS15(2)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0002

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D61801-BS2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0000078R.0041.ZED

% Moisture: Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 04/18/2006

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/19/2006

Injection Volume: 0.1 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.6	JB
76-44-8	Heptachlor	~~0.89~~ 1.7	~~JB~~ U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.9	B
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.8	B
72-55-9	4,4'-DDE	3.8	B
72-20-8	Endrin	5.0	
33213-65-9	Endosulfan II	0.38	JB
72-54-8	4,4'-DDD	0.36	J
1031-07-8	Endosulfan sulfate	3.1	JP
50-29-3	4,4'-DDT	0.32	JB
72-43-5	Methoxychlor	2.0	JB
53494-70-5	Endrin ketone	0.54	JB
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	0.45	JB
5103-74-2	gamma-Chlordane	2.2	BP
8001-35-2	Toxaphene	170	U

ACH
7-13-06

00352

2R - FORM II ARO-2
SOIL AROCLOR SURROGATE RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0002

GC Column (1): RTXCLP ID: 0.53 (mm) GC Column (2): RTXCLP2 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	ABLK13	85	97	81	90			0
02	ABLK14	85	92	81	90			0
03	ALCS14	92	94	91	96			0
04	E0001	94	95	89	91			0
05	E0002	85	89	85	90			0
06	E0003	99	100	94	99			0
07	E0004	79	78	77	136			0
08	E0005	92	92	87	94			0
09	E0006	84	86	82	88			0
10	E0007	82	83	79	81			0
11	E0008	90	92	86	87			0
12	E0009	89	92	87	90			0
13	E0014	97	97	90	113			0
14	E0015	85	86	87	101			0
15	E0016	90	99	86	89			0
16	E0016MS	92	92	85	84			0
17	E0016MSD	95	96	92	91			0
18	E0017	91	87	83	82			0
19	E0018	1 *	0 *	8 *	8 *			3
20	E0019	93	93	92	85			0
21	E0027	127	129	121	173 *			1
22	E0028	87	89	79	85			0
23	E0029	93	58	87	59			0
24	E0030	96	90	89	100			0
25	E0031	109	109	102	109			0
26								
27								
28								
29								
30								

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Value outside of QC limits
D Surrogate diluted out

00364

3K - FORM III ARO-2
SOIL AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0002

Matrix Spike - EPA Sample No.: E0016

Instrument ID: HP90D GC Column: RTXCLP ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
AR1016	36	ND	46	127	29-135
AR1260	36	ND	33	91	29-135

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
AR1016	36	ND	*		0-15	29-135
AR1260	36	ND	*		0-20	29-135

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

3K - FORM III ARO-2
SOIL AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0002

Matrix Spike - EPA Sample No.: E0016

Instrument ID: HP90D GC Column: RTXCLP2 ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
AR1016	36	ND	ND	*	29-135
AR1260	36	ND	ND	*	29-135

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
AR1016	36	ND	*		0-15	29-135
AR1260	36	ND	*		0-20	29-135

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

3P - FORM III ARO-4
SOIL AROCLOR LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

ALCS14

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0002

Lab Sample ID: 0D61805-BS2 LCS Lot No.: P-2464

Date Extracted: 04/18/2006 Date Analyzed (1): 04/26/2006

Instrument ID (1): HP90D GC Column (1): RTXCLP ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC #	QC LIMITS
AR1016	33	39	117	50-150
AR1260	33	35	105	50-150

Instrument ID (2): HP90D GC Column (2): RTXCLP2 ID: 0.53 (mm)

Date Analyzed (2): 04/26/2006

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC #	QC LIMITS
AR1016	33	36	108	50-150
AR1260	33	37	111	50-150

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits

LCS Recovery: 0 out of 4 outside limits

COMMENTS:

4F - FORM IV ARO
AROCLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.

ABLK13

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0002

Lab File ID: 0000089F.0034.ZED Lab Sample ID: 0D61805-BLK1

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 04/18/2006

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

Acid Cleanup: (Y/N) Y

Date Analyzed (1): 04/26/2006 Date Analyzed (2): 04/26/2006

Time Analyzed (1): 1302 Time Analyzed (2): 1302

Instrument ID (1): HP90D Instrument ID (2): HP90D

GC Column(1): RTXCLP ID: 0.53 (mm) GC Column(2): RTXCLP2 ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	E0001	0060408-01	04/26/2006	04/26/2006
02	E0002	0060408-02	04/26/2006	04/26/2006
03	E0003	0060408-03	04/26/2006	04/26/2006
04	E0004	0060408-04	04/26/2006	04/26/2006
05	E0005	0060408-05	04/26/2006	04/26/2006
06	E0006	0060408-06	04/26/2006	04/26/2006
07	E0007	0060408-07	04/26/2006	04/26/2006
08	E0008	0060408-08	04/26/2006	04/26/2006
09	E0009	0060408-09	04/26/2006	04/26/2006
10	E0014	0060408-10	04/26/2006	04/26/2006
11	E0015	0060408-11	04/26/2006	04/26/2006
12	E0016	0060408-12	04/27/2006	04/27/2006
13	E0017	0060408-13	04/27/2006	04/27/2006
14	E0018	0060408-14	04/27/2006	04/27/2006
15	E0019	0060408-15	04/27/2006	04/27/2006
16	E0027	0060408-16	04/27/2006	04/27/2006
17	E0028	0060408-17	04/27/2006	04/27/2006
18	E0029	0060408-18	04/27/2006	04/27/2006
19	E0030	0060408-19	04/27/2006	04/27/2006
20	E0031	0060408-20	04/27/2006	04/27/2006
21	ALCS14	0D61805-BS2	04/26/2006	04/26/2006
22	E0016MS	0D61805-MS1	04/27/2006	04/27/2006
23	E0016MSD	0D61805-MSD1	04/27/2006	04/27/2006
24				
25				
26				

COMMENTS:

00368

SOM01.1 (5/2005)

4F - FORM IV ARO
AROCLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.
ABLK14

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0002

Lab File ID: 0000089f.0035.ZED Lab Sample ID: 0D61805-BLK2

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 04/18/2006

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

Acid Cleanup: (Y/N) Y

Date Analyzed (1): 04/26/2006 Date Analyzed (2): 04/26/2006

Time Analyzed (1): 1341 Time Analyzed (2): 1341

Instrument ID (1): HP90D Instrument ID (2): HP90D

GC Column(1): RTXCLP ID: 0.53 (mm) GC Column(2): RTXCLP2 ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	E0001	0060408-01	04/26/2006	04/26/2006
02	E0002	0060408-02	04/26/2006	04/26/2006
03	E0003	0060408-03	04/26/2006	04/26/2006
04	E0004	0060408-04	04/26/2006	04/26/2006
05	E0005	0060408-05	04/26/2006	04/26/2006
06	E0006	0060408-06	04/26/2006	04/26/2006
07	E0007	0060408-07	04/26/2006	04/26/2006
08	E0008	0060408-08	04/26/2006	04/26/2006
09	E0009	0060408-09	04/26/2006	04/26/2006
10	E0014	0060408-10	04/26/2006	04/26/2006
11	E0015	0060408-11	04/26/2006	04/26/2006
12	E0016	0060408-12	04/27/2006	04/27/2006
13	E0017	0060408-13	04/27/2006	04/27/2006
14	E0018	0060408-14	04/27/2006	04/27/2006
15	E0019	0060408-15	04/27/2006	04/27/2006
16	E0027	0060408-16	04/27/2006	04/27/2006
17	E0028	0060408-17	04/27/2006	04/27/2006
18	E0029	0060408-18	04/27/2006	04/27/2006
19	E0030	0060408-19	04/27/2006	04/27/2006
20	E0031	0060408-20	04/27/2006	04/27/2006
21	ALCS14	0D61805-BS2	04/26/2006	04/26/2006
22	E0016MS	0D61805-MS1	04/27/2006	04/27/2006
23	E0016MSD	0D61805-MSD1	04/27/2006	04/27/2006
24				
25				
26				

COMMENTS:

00369

SOM01.1 (5/2005)

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
ALCS14(1)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0002

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D61805-BS2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0000089f.0037.ZED

% Moisture: Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 04/18/2006

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/26/2006

Injection Volume: 0.1 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

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

ACID Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
12674-11-2	AR1016	39	
11104-28-2	AR1221	33	U
11141-16-5	AR1232	33	U
53469-21-9	AR1242	33	U
12672-29-6	AR1248	33	U
11097-69-1	AR1254	33	U
11096-82-5	AR1260	35	
37324-23-5	AR1262	33	U
11100-14-4	AR1268	33	U

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
ALCS14(2)

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0002

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0D61805-BS2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0000089R.0037.ZED

% Moisture: Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 04/18/2006

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/26/2006

Injection Volume: 0.1 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

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

ACID Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
12674-11-2	AR1016	36	
11104-28-2	AR1221	33	U
11141-16-5	AR1232	33	U
53469-21-9	AR1242	33	U
12672-29-6	AR1248	33	U
11097-69-1	AR1254	33	U
11096-82-5	AR1260	37	
37324-23-5	AR1262	33	U
11100-14-4	AR1268	33	U

6J - FORM VI PEST-1
PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0002

Instrument ID: HP90D

Level (x CS1): CS1 1 CS2 2 CS3 4 CS4 8 CS5 16

GC Column: RTXCLP ID: 0.53 (mm) Date(s) Analyzed: 04/11/2006 04/12/2006

COMPOUND	RT OF STANDARDS					$\overline{RT}$	RT WINDOW*	
	CS1	CS2	CS3	CS4	CS5		FROM	TO
alpha-BHC	07.94	07.94	07.94	07.94	07.94	07.94	07.89	07.99
beta-BHC	08.87	08.87	08.87	08.87	08.87	08.87	08.82	08.92
delta-BHC	09.25	09.25	09.25	09.25	09.25	09.25	09.20	09.30
gamma-BHC (Lindane)	08.66	08.66	08.66	08.66	08.66	08.66	08.61	08.71
Heptachlor	09.68	09.69	09.69	09.69	09.69	09.69	09.64	09.74
Aldrin	10.32	10.32	10.32	10.32	10.32	10.32	10.27	10.37
Heptachlor epoxide	11.60	11.60	11.60	11.60	11.60	11.60	11.53	11.67
Endosulfan I	12.40	12.40	12.40	12.40	12.40	12.40	12.33	12.47
Dieldrin	12.88	12.88	12.88	12.88	12.88	12.88	12.81	12.95
4,4'-DDE	12.30	12.30	12.30	12.29	12.29	12.30	12.23	12.37
Endrin	13.34	13.34	13.34	13.34	13.34	13.34	13.27	13.41
Endosulfan II	13.79	13.79	13.79	13.79	13.79	13.79	13.72	13.86
4,4'-DDD	13.48	13.49	13.48	13.48	13.48	13.48	13.41	13.55
Endosulfan sulfate	15.48	15.47	15.48	15.47	15.47	15.47	15.40	15.54
4,4'-DDT	14.02	14.03	14.03	14.02	14.02	14.02	13.95	14.09
Methoxychlor	14.97	14.97	14.97	14.97	14.97	14.97	14.90	15.04
Endrin ketone	16.02	16.02	16.02	16.02	16.02	16.02	15.95	16.09
Endrin aldehyde	14.62	14.62	14.62	14.62	14.62	14.62	14.55	14.69
alpha-Chlordane	12.12	12.12	12.12	12.12	12.12	12.12	12.05	12.19
gamma-Chlordane	11.85	11.85	11.85	11.85	11.85	11.85	11.78	11.92
TCX (A)	06.65	06.65	06.65	06.65	06.65	06.65	06.60	06.70
DCB (A)	17.92	17.92	17.92	17.92	17.92	17.92	17.82	18.02
TCX (B)	06.65	06.65	06.65	06.65	06.65	06.65	06.55	06.75
DCB (B)	17.92	17.92	17.92	17.92	17.92	17.92	17.82	18.02

(A) Surrogate RTs are measured from Standard Mixture A if two mixtures are used or from Standard Mixture C if one mixture is used.

(B) Surrogate RTs are measured from Standard Mixture B if two mixtures are used. Leave entries blank if Standard Mixture C is used.

* RT windows are ± 0.05 minutes for all compounds that elute before Heptachlor epoxide; ± 0.07 minutes for all other compounds (except ± 0.10 minutes for DCB)

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6J - FORM VI PEST-1
PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0002

Instrument ID: HP90D

Level (x CS1): CS1 1 CS2 2 CS3 4 CS4 8 CS5 16

GC Column: RTXCLP2 ID: 0.53 (mm) Date(s) Analyzed: 04/11/2006 04/12/2006

COMPOUND	RT OF STANDARDS					$\overline{RT}$	RT WINDOW*	
	CS1	CS2	CS3	CS4	CS5		FROM	TO
alpha-BHC	09.25	09.25	09.25	09.25	09.25	09.25	09.20	09.30
beta-BHC	10.27	10.26	10.27	10.26	10.26	10.26	10.21	10.31
delta-BHC	10.93	10.93	10.93	10.93	10.93	10.93	10.88	10.98
gamma-BHC (Lindane)	10.08	10.08	10.08	10.08	10.08	10.08	10.03	10.13
Heptachlor	11.09	11.09	11.08	11.08	11.09	11.09	11.04	11.14
Aldrin	11.80	11.80	11.80	11.80	11.80	11.80	11.75	11.85
Heptachlor epoxide	13.00	13.00	13.00	13.00	13.00	13.00	12.93	13.07
Endosulfan I	13.81	13.81	13.81	13.81	13.81	13.81	13.74	13.88
Dieldrin	14.37	14.37	14.37	14.37	14.36	14.37	14.30	14.44
4,4'-DDE	14.00	14.00	14.00	14.00	13.99	14.00	13.93	14.07
Endrin	14.99	14.99	14.99	14.99	14.99	14.99	14.92	15.06
Endosulfan II	15.40	15.40	15.40	15.40	15.40	15.40	15.33	15.47
4,4'-DDD	15.15	15.15	15.15	15.15	15.15	15.15	15.08	15.22
Endosulfan sulfate	16.61	16.61	16.61	16.60	16.60	16.61	16.54	16.68
4,4'-DDT	15.78	15.78	15.78	15.78	15.78	15.78	15.71	15.85
Methoxychlor	17.09	17.09	17.09	17.08	17.07	17.08	17.01	17.15
Endrin ketone	17.69	17.69	17.69	17.69	17.69	17.69	17.62	17.76
Endrin aldehyde	16.06	16.06	16.06	16.06	16.06	16.06	15.99	16.13
alpha-Chlordane	13.69	13.69	13.69	13.69	13.69	13.69	13.62	13.76
gamma-Chlordane	13.39	13.39	13.39	13.39	13.39	13.39	13.32	13.46
TCX (A)	07.76	07.76	07.76	07.76	07.76	07.76	07.71	07.81
DCB (A)	20.33	20.33	20.33	20.33	20.33	20.33	20.23	20.43
TCX (B)	07.76	07.76	07.76	07.76	07.76	07.76	07.66	07.86
DCB (B)	20.33	20.33	20.33	20.33	20.33	20.33	20.23	20.43

(A) Surrogate RTs are measured from Standard Mixture A if two mixtures are used or from Standard Mixture C if one mixture is used.

(B) Surrogate RTs are measured from Standard Mixture B if two mixtures are used. Leave entries blank if Standard Mixture C is used.

* RT windows are ± 0.05 minutes for all compounds that elute before Heptachlor epoxide; ± 0.07 minutes for all other compounds (except ± 0.10 minutes for DCB)

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0014

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0002

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0000078F.0074.ZED

% Moisture: 15.0 Decanted: (Y/N) N Date Received: 04/~~12~~13/2006 ack 7-17-06

Extraction: (Type) SONC Date Extracted: 04/18/2006

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/21/2006

Injection Volume: 0.1 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

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

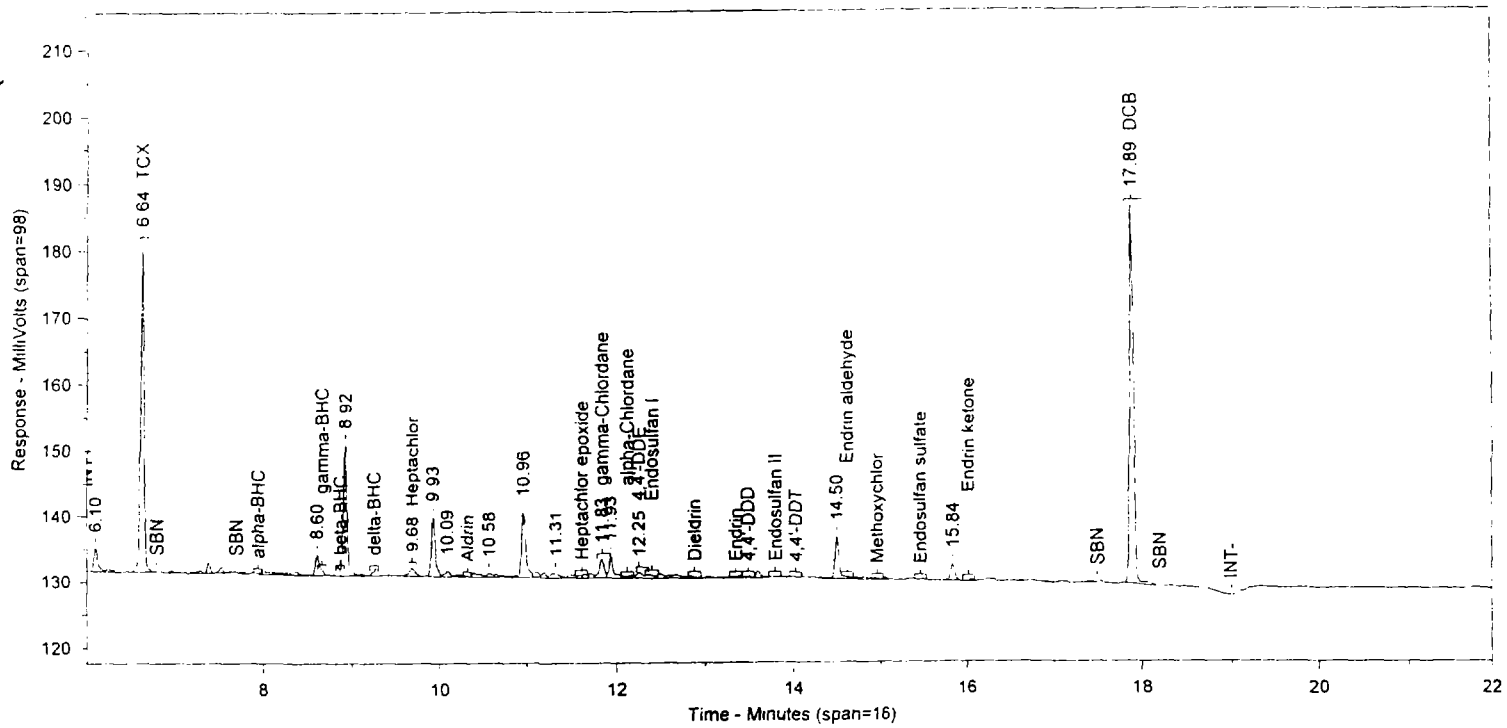
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	~~0.078~~ 2.0	~~JBP~~U
76-44-8	Heptachlor	2.0	U *
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	~~0.11~~ 3.9	~~JBP~~U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	~~2.8~~ 3.9	~~JP~~U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	~~0.14~~ 2.0	~~JBP~~U
8001-35-2	Toxaphene	200	U

* Confirmed detect not reported.

ack 7-13-06

00059

-- E:\DATA\HP90D1\0000078F.0074.RAW * 0060408-10 E0014
-- E:\DATA\HP90D1\0000078F.0074.RAW 0060408-10 E0014

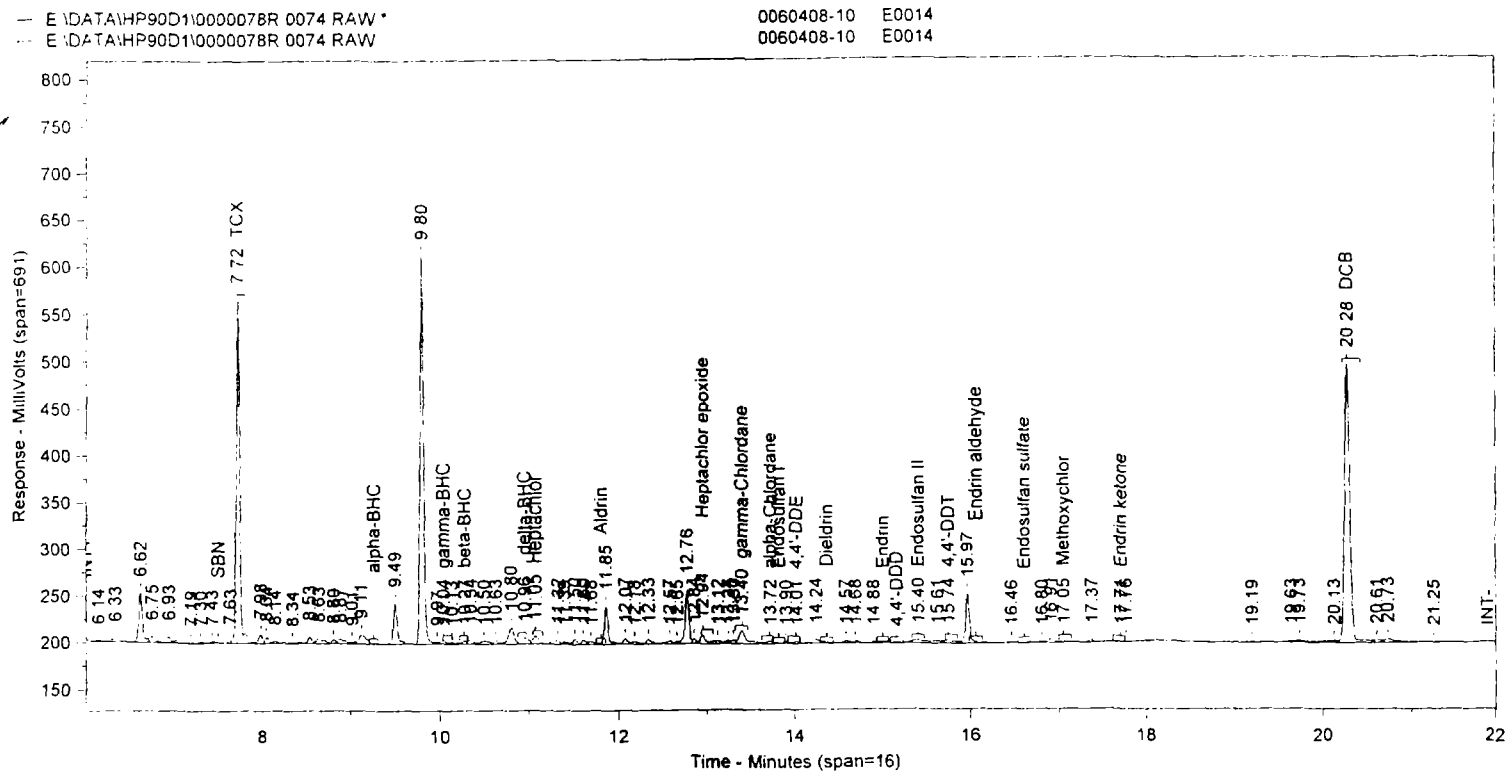


Sample Name = 0060408-10 E0014
Date Taken (start) = 4/21/06 14:38:06
Raw File Name = E:\DATA\HP90D1\0000078F.0074.RAW
Method File Name = E:\MET\D4.2DUALCOL1.MET
Calibration File Name = E:\CAL\DSOMCAL.cal

Instrument : HP90D1
Column: RTXCLP id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
6.10	11791		0.000
6.64	130277	TCX	37.572
8.60	12074		0.000
8.92	58642		0.000
9.68	7205	Heptachlor	2.266
9.93	29662		0.000
10.09	5767		0.000
10.58	5460		0.000
10.96	33019		0.000
11.31	5834		0.000
11.83	10617	gamma-Chlordane	3.098
11.93	14544		0.000
12.25	7742	4,4'-DDE	2.999
14.50	25474		0.000
15.84	8801		0.000
17.89	175418	DCB	73.449

00060



Sample Name = 0060408-10 E0014
Date Taken (start) = 4/21/06 14:38:06
Raw File Name = E:\DATA\HP90D1\0000078R.0074.RAW
Method File Name = E:\MET\D4.2DUALCOL2.MET
Calibration File Name = E:\CAL\DSOMCALB.cal

Instrument : HP90D2
Column: RTXCLP2 id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
6.14	9419		0.000
6.33	22400		0.000
6.62	159407		0.000
6.75	27775		0.000
6.93	19551		0.000
7.19	5431		0.000
7.30	5504		0.000
7.43	7457		0.000
7.63	6833		0.000
7.72	1005374	TCX	51.982
7.98	30217		0.000
8.04	17307		0.000
8.14	12222		0.000
8.34	7365		0.000
8.53	22975		0.000
8.63	32469		0.000
8.80	13478		0.000
8.87	23429		0.000
9.01	7352		0.000
9.11	57327		0.000
9.49	140136		0.000
9.80	1125304		0.000
9.97	7805		0.000
10.04	13274	gamma-BHC	0.558
10.13	6298		0.000
10.27	12426	beta-BHC	1.082
10.34	19908		0.000
10.50	23162		0.000

00061

Ret Time (min)	Peak Area	Peak Name	Amount Fnd ug/L
10.63	10466		0.000
10.80	79658		0.000
10 96	28992	delta-BHC	1.378
11 05	35943	Heptachlor	1.502
11 32	24405		0.000
11.39	10005		0.000
11.50	17194		0.000
11 60	15665		0.000
11.68	14366		0.000
11.85	117108		0.000
12.07	19108		0.000
12.18	13622		0.000
12 33	20515		0.000
12.57	14705		0.000
12.65	7881		0.000
12.76	175135		0.000
12.84	13871		0.000
12 94	36293	Heptachlor epoxide	1.774
13.12	18766		0.000
13.24	10300		0.000
13.30	11820		0.000
13 40	76852	gamma-Chlordane	3.705
13.72	15744	alpha-Chlordane	0.770
13.90	7459		0.000
14.01	10824	4,4'-DDE	0.633
14.24	28934		0.000
14.57	13694		0.000
14.68	12399		0.000
14.88	11442		0.000
15.40	33610	Endosulfan II	2.093
15.61	20236		0.000
15.74	24309	4,4'-DDT	1.644
15.97	176091		0.000
16.46	6712		0.000
16.80	15503		0.000
16.91	17647		0.000
17.05	12933	Methoxychlor	1.876
17.37	12603		0.000
17.71	6125	Endrin ketone	0.395
17 76	6399		0.000
19.19	14928		0.000
19.63	10598		0.000
19.73	18535		0.000
20 13	21554		0.000
20.28	1235116	DCB	97.089
20.61	15964		0.000
20.73	43438		0.000
21.25	15839		0.000

00062

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0015

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0002

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0000078F.0075.ZED

% Moisture: 12.0 Decanted: (Y/N) N Date Received: 04/~~12~~ 13/2006 ACH 7-17-06

Extraction: (Type) SONC Date Extracted: 04/18/2006

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/21/2006

Injection Volume: 0.1 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

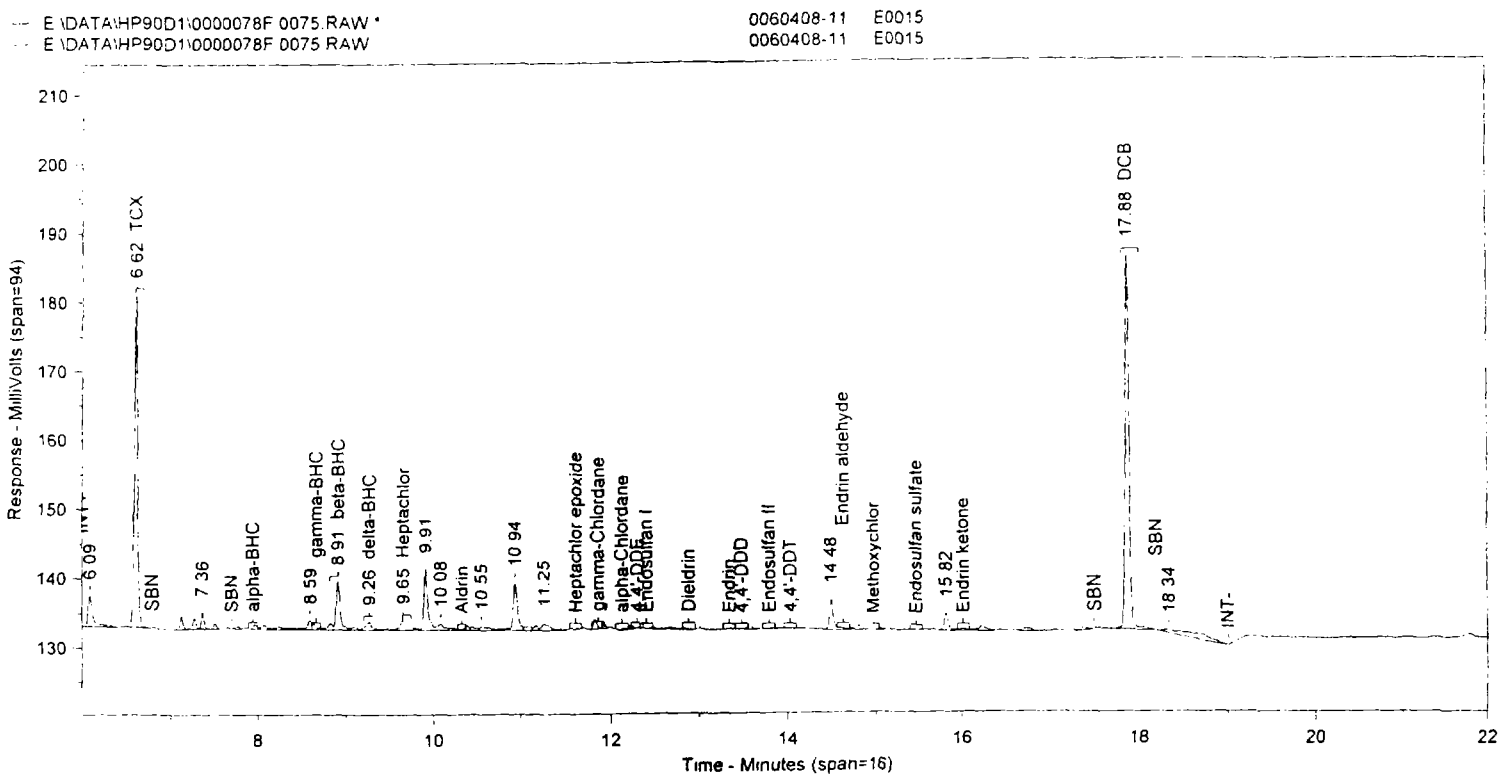
GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	* U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	~~0.093~~ 1.9	~~JBPU~~ N.C.
76-44-8	Heptachlor	~~0.20~~ 1.9	~~JBPU~~
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	~~1.7~~ 3.8	~~JBPU~~
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U

* Confirmed detect not reported.
N.C. - Detect not confirmed on both columns

ACH 7-13-06

00063

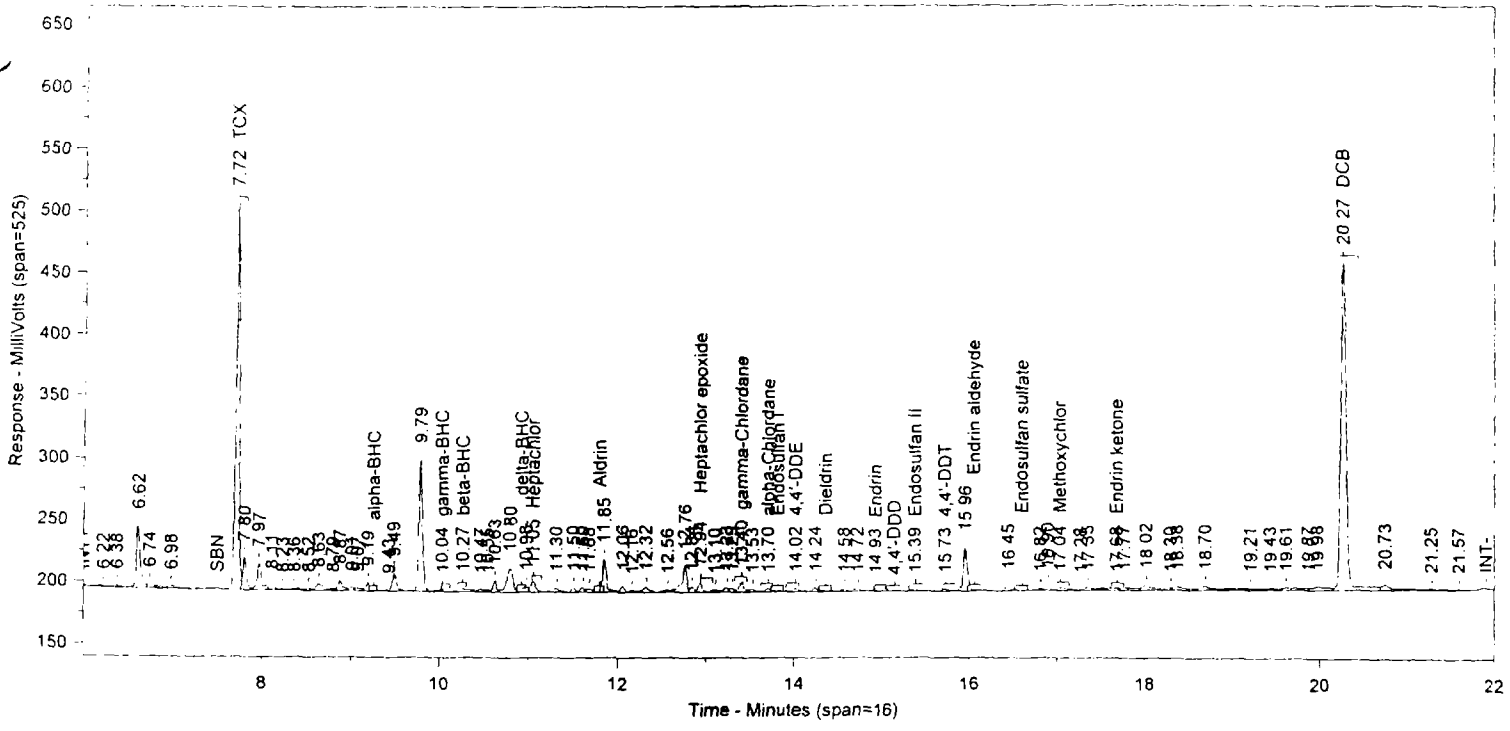


Sample Name = 0060408-11 E0015
Date Taken (start) = 4/21/06 15:17:09
Raw File Name = E:\DATA\HP90D1\0000078F.0075.RAW
Method File Name = E:\MET\D4.2DUALCOL1.MET
Calibration File Name = E:\CAL\DSOMCAL.cal

Instrument : HP90D1
Column: RTXCLP id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
6.09	18497		0.000
6.62	125824	TCX	36.288
7.36	5618		0.000
8.59	7647		0.000
8.91	23183	beta-BHC	9.770
9.26	6409	delta-BHC	1.768
9.65	12291	Heptachlor	3.865
9.91	29856		0.000
10.08	7217		0.000
10.55	6325		0.000
10.94	22259		0.000
11.25	6688		0.000
14.48	15851		0.000
15.82	11128		0.000
17.88	170955	DCB	71.581
18.34	20217		0.000

— E \DATA\HP90D1\0000078R 0075.RAW * 0060408-11 E0015
-- E \DATA\HP90D1\0000078R 0075 RAW 0060408-11 E0015



Sample Name = 0060408-11 E0015
Date Taken (start) = 4/21/06 15:17:09
Raw File Name = E:\DATA\HP90D1\0000078R.0075.RAW
Method File Name = E:\MET\D4.2DUALCOL2.MET
Calibration File Name = E:\CAL\DSOMCALB.cal

Instrument : HP90D2
Column: RTXCLP2 id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
6.22	9535		0.000
6.38	8539		0.000
6.62	153266		0.000
6.74	18301		0.000
6.98	11809		0.000
7.72	834854	TCX	43.165
7.80	78599		0.000
7.97	74465		0.000
8.11	14303		0.000
8.23	6312		0.000
8.36	7575		0.000
8.52	8337		0.000
8.63	30814		0.000
8.79	7052		0.000
8.87	32383		0.000
9.01	10395		0.000
9.07	10847		0.000
9.19	20411		0.000
9.43	6641		0.000
9.49	50189		0.000
9.79	304594		0.000
10.04	9700	gamma-BHC	0.408
10.27	21916	beta-BHC	1.908
10.47	9591		0.000
10.55	5743		0.000
10.63	26102		0.000
10.80	93660		0.000
10.98	20476		0.000

00065

Ret Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
11 05	32900	Heptachlor	1.374
11.30	14049		0.000
11 50	12478		0.000
11.60	12073		0.000
11 68	14665		0.000
11 85	85075		0.000
12.06	18332		0.000
12.16	7625		0.000
12 32	22612		0.000
12.56	7674		0.000
12.76	88159		0.000
12.84	13232		0.000
12 94	27246	Heptachlor epoxide	1.332
13 10	10695		0.000
13.23	12279		0.000
13.29	11188		0.000
13 40	31064	gamma-Chlordane	1.497
13 53	12186		0.000
13.70	23360	alpha-Chlordane	1.142
14.02	15524	4,4'-DDE	0.908
14.24	18769		0.000
14.58	8577		0.000
14.72	12131		0.000
14.93	5851	Endrin	0.426
15.39	12578	Endosulfan II	0.783
15.73	10179	4,4'-DDT	0.688
15.96	119138		0.000
16.45	15693		0.000
16.82	6708		0.000
16 90	16586		0.000
17.04	18009	Methoxychlor	2.613
17.28	5008		0.000
17.35	15790		0.000
17.68	19226	Endrin ketone	1.241
17.77	25517		0.000
18.02	35648		0.000
18.30	6736		0.000
18.38	24354		0.000
18.70	38003		0.000
19.21	21256		0.000
19.43	10945		0.000
19.61	23458		0.000
19.87	7939		0.000
19.98	34864		0.000
20.27	1151240	DCB	90.496
20.73	46226		0.000
21.25	7443		0.000
21 57	6796		0.000

00066

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0016

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0002

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0000078F.0076.ZED

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 04/~~12~~ 13/2006 acH 7.17.06

Extraction: (Type) SONC Date Extracted: 04/18/2006

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/21/2006

Injection Volume: 0.1 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

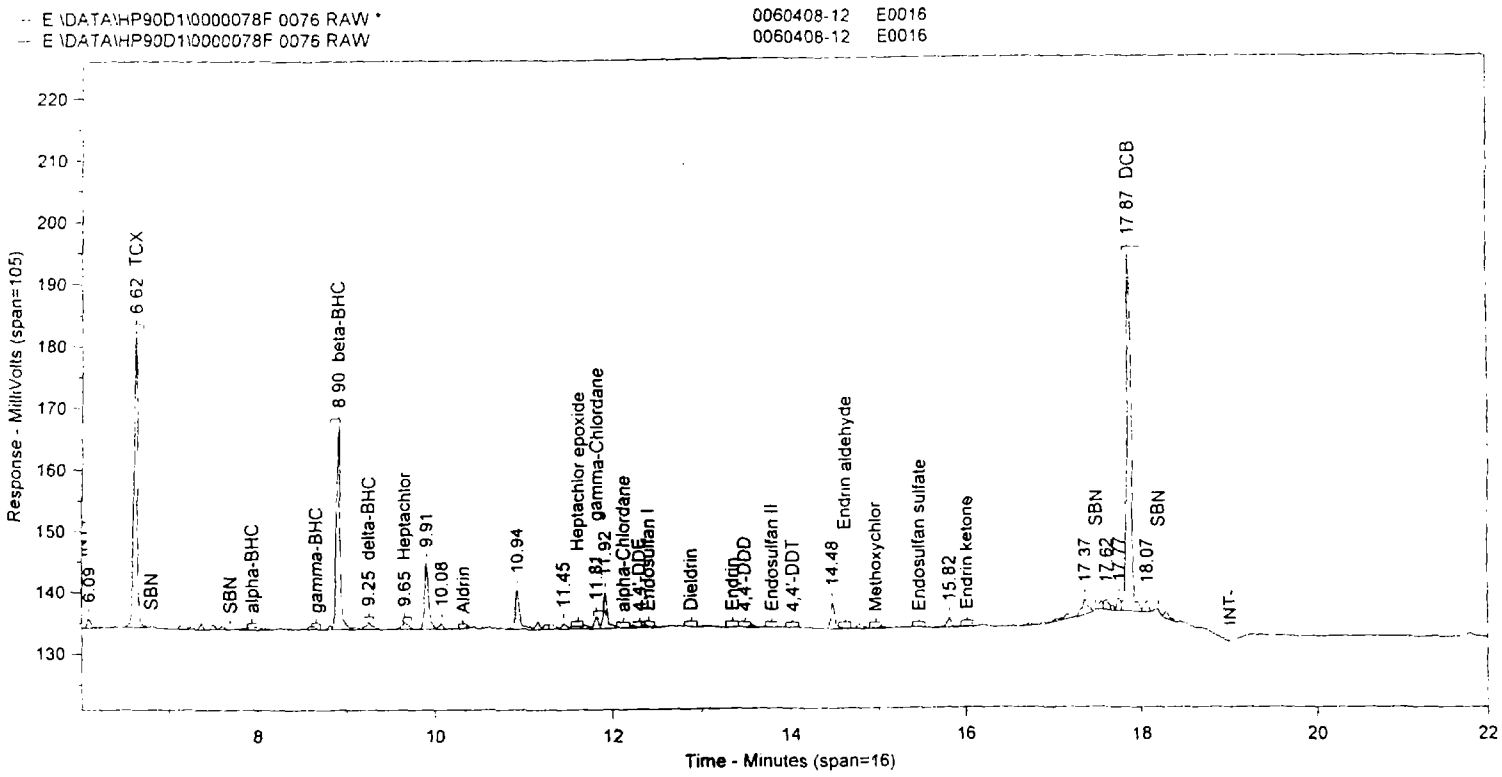
GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8 *	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	~~0.19~~ 1.8	~~JBP~~ U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	~~1.6~~ 1.8	~~JP~~ U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	~~0.093~~ 1.8	~~JBP~~ U
8001-35-2	Toxaphene	180	U

* Confirmed detect not reported.

acH
7-13-06

00067

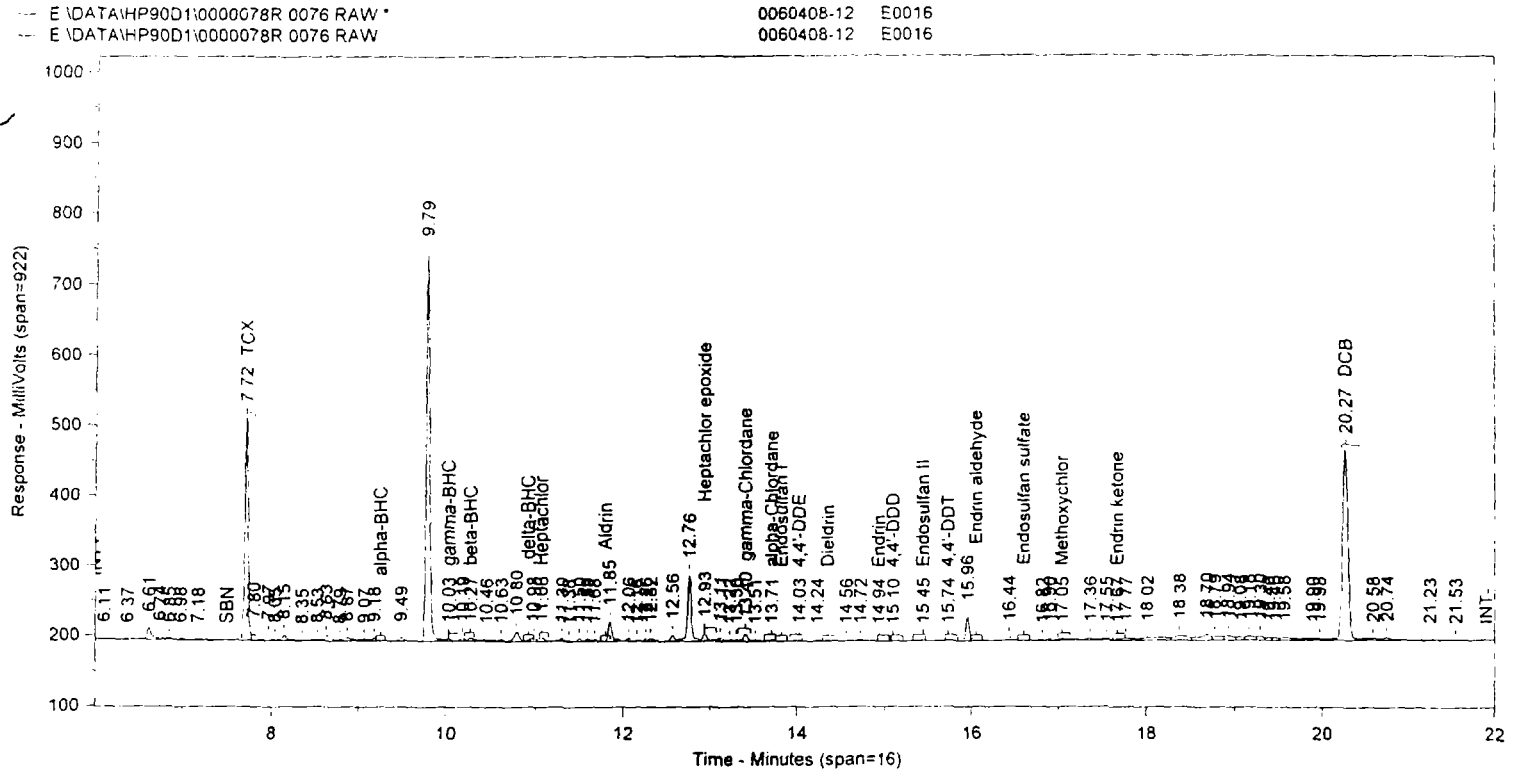


Sample Name = 0060408-12 E0016
Date Taken (start) = 4/21/06 15:56:20
Raw File Name = E:\DATA\HP90D1\0000078F.0076.RAW
Method File Name = E:\MET\D4.2DUALCOL1.MET
Calibration File Name = E:\CAL\DSOMCAL.cal

Instrument : HP90D1
Column: RTXCLP id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
6.09	5648		0.000
6.62	126543	TCX	36.495
8.90	100638	beta-BHC	42.410
9.25	6126	delta-BHC	1.690
9.65	6735	Heptachlor	2.118
9.91	34466		0.000
10.08	5445		0.000
10.94	22004		0.000
11.45	6744		0.000
11.81	6794	gamma-Chlordane	1.982
11.92	20726		0.000
14.48	15465		0.000
15.82	6179		0.000
17.37	13561		0.000
17.62	5936		0.000
17.77	6068		0.000
17.87	187408	DCB	78.470
18.07	5551		0.000

00068



Sample Name = 0060408-12 E0016
Date Taken (start) = 4/21/06 15:56:20
Raw File Name = E:\DATA\HP90D1\0000078R.0076.RAW
Method File Name = E:\MET\D4.2DUALCOL2.MET
Calibration File Name = E:\CAL\DSOMCALB.cal

Instrument : HP90D2
Column: RTXCLP2 id: 0.53mm
Volume Inj. 0.1uL
Analyst. JG

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
6.11	5451		0.000
6.37	5587		0.000
6.61	58516		0.000
6.74	13665		0.000
6.85	8086		0.000
6.98	15424		0.000
7.18	6158		0.000
7.72	846330	TCX	43.758
7.80	32436		0.000
7.97	22576		0.000
8.05	9097		0.000
8.15	29452		0.000
8.35	6808		0.000
8.53	8115		0.000
8.63	38080		0.000
8.79	6768		0.000
8.87	26097		0.000
9.07	20826		0.000
9.18	19328		0.000
9.49	21812		0.000
9.79	1508774		0.000
10.03	17683	gamma-BHC	0.743
10.19	15839		0.000
10.27	28600	beta-BHC	2.489
10.46	12167		0.000
10.63	9208		0.000
10.80	63457		0.000
10.98	20423		0.000

00069

Ret Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
11 06	24777	Heptachlor	1.035
11 30	16685		0.000
11.38	6487		0.000
11.50	13579		0.000
11.59	11683		0.000
11 68	12586		0.000
11.85	95980		0.000
12.06	15239		0.000
12 16	6870		0.000
12.26	11445		0.000
12 32	17503		0.000
12.56	29663		0.000
12 76	304686		0.000
12 93	39442	Heptachlor epoxide	1.928
13.11	25746		0.000
13.22	9920		0.000
13.30	8270		0.000
13.40	39411	gamma-Chlordane	1.900
13.51	10372		0.000
13.71	11318	alpha-Chlordane	0.553
14.03	10025	4,4'-DDE	0.586
14.24	16448		0.000
14.56	5747		0.000
14.72	8642		0.000
14.94	9062	Endrin	0.660
15.10	5406	4,4'-DDD	0.363
15.45	11032	Endosulfan II	0.687
15.74	9076	4,4'-DDT	0.614
15.96	112184		0.000
16.44	19875		0.000
16.82	6956		0.000
16.90	15393		0.000
17.05	25083	Methoxychlor	3.639
17.36	22712		0.000
17.55	14517		0.000
17.67	14833	Endrin ketone	0.958
17.77	29320		0.000
18.02	81577		0.000
18.38	75670		0.000
18.70	81791		0.000
18.79	41693		0.000
18.94	45481		0.000
19.08	28656		0.000
19.18	39633		0.000
19.30	27472		0.000
19.40	19016		0.000
19.46	21548		0.000
19.58	50207		0.000
19.90	14005		0.000
19.98	29512		0.000
20.27	1125720	DCB	88.490
20.58	20245		0.000
20.74	41985		0.000
21.23	6135		0.000
21 53	5868		0.000

00070

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0017

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0002

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0000078F.0077.ZED

% Moisture: 37.0 Decanted: (Y/N) N Date Received: 04/~~12~~ 13/2006 ACA 7-17-06

Extraction: (Type) SONC Date Extracted: 04/18/2006

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/21/2006

Injection Volume: 0.1 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

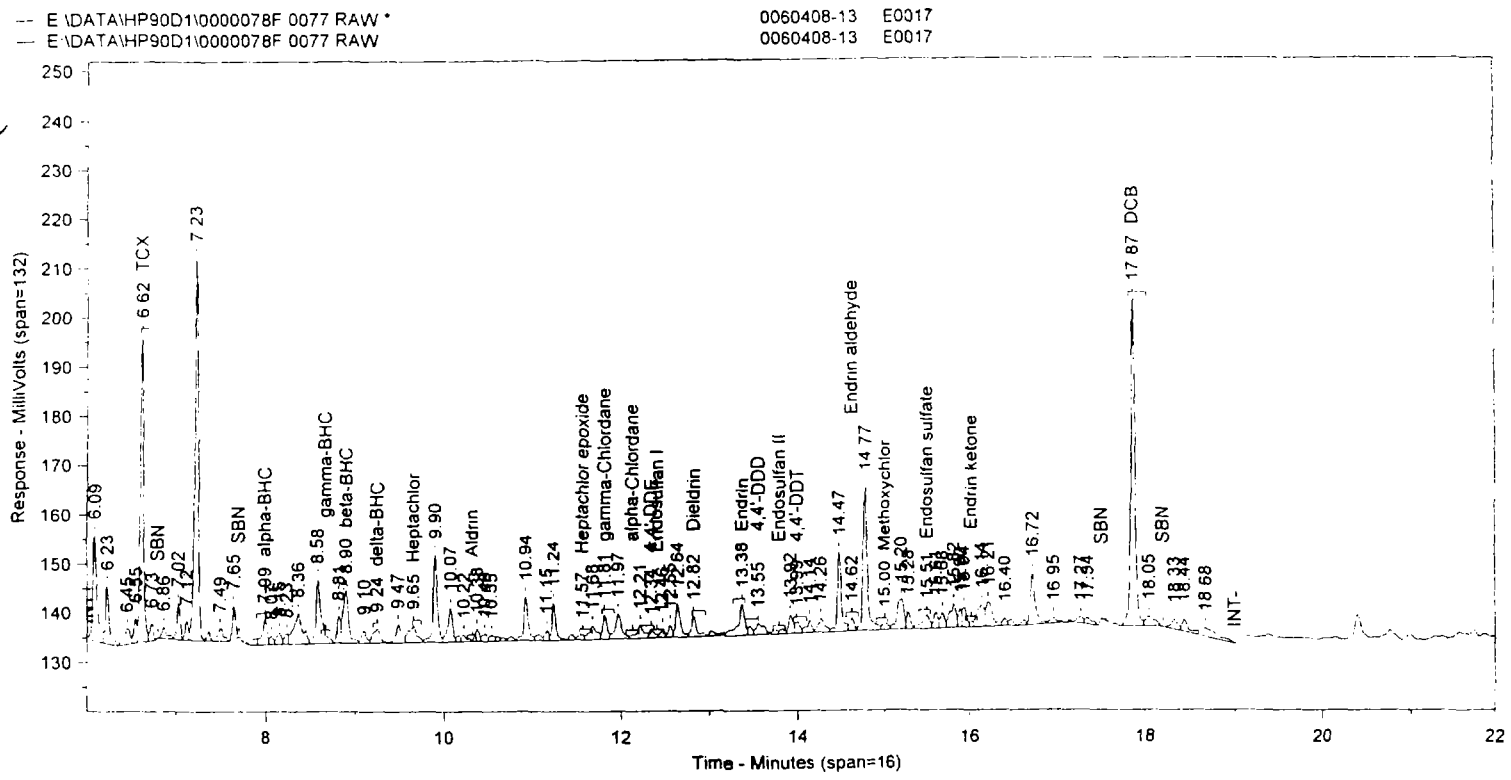
GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q	
319-84-6	alpha-BHC	2.7	U	
319-85-7	beta-BHC	~~0.52~~ 2.7	~~JP~~U	
319-86-8	delta-BHC	2.7 *	U	
58-89-9	gamma-BHC (Lindane)	~~0.99~~ 2.7	~~JBP~~U	N.C.
76-44-8	Heptachlor	2.7 *	U	
309-00-2	Aldrin	~~0.38~~ 2.7	~~JP~~U	
1024-57-3	Heptachlor epoxide	~~0.51~~ 2.7	~~JP~~U	
959-98-8	Endosulfan I	~~0.73~~ 2.7	~~JP~~U	
60-57-1	Dieldrin	1.7	J	
72-55-9	4,4'-DDE	~~0.40~~ 5.2	~~JBP~~U	
72-20-8	Endrin	5.2 *	U	
33213-65-9	Endosulfan II	5.2	U	
72-54-8	4,4'-DDD	1.6	JP	
1031-07-8	Endosulfan sulfate	2.34 ~~5.2~~ *	J ~~U~~	
50-29-3	4,4'-DDT	1.5	JP	
72-43-5	Methoxychlor	27 *	U	
53494-70-5	Endrin ketone	~~1.0~~ 5.2	~~J~~U	N.C.
7421-93-4	Endrin aldehyde	1.29 ~~5.2~~ *	J ~~U~~	
5103-71-9	alpha-Chlordane	2.7	U	
5103-74-2	gamma-Chlordane	~~0.97~~ 2.7	~~JBP~~U	Detect
8001-35-2	Toxaphene	270	U	

* Confirmed detect not reported.
N.C. Detection not confirmed on 2nd column.

ACA
7-13-06

00071



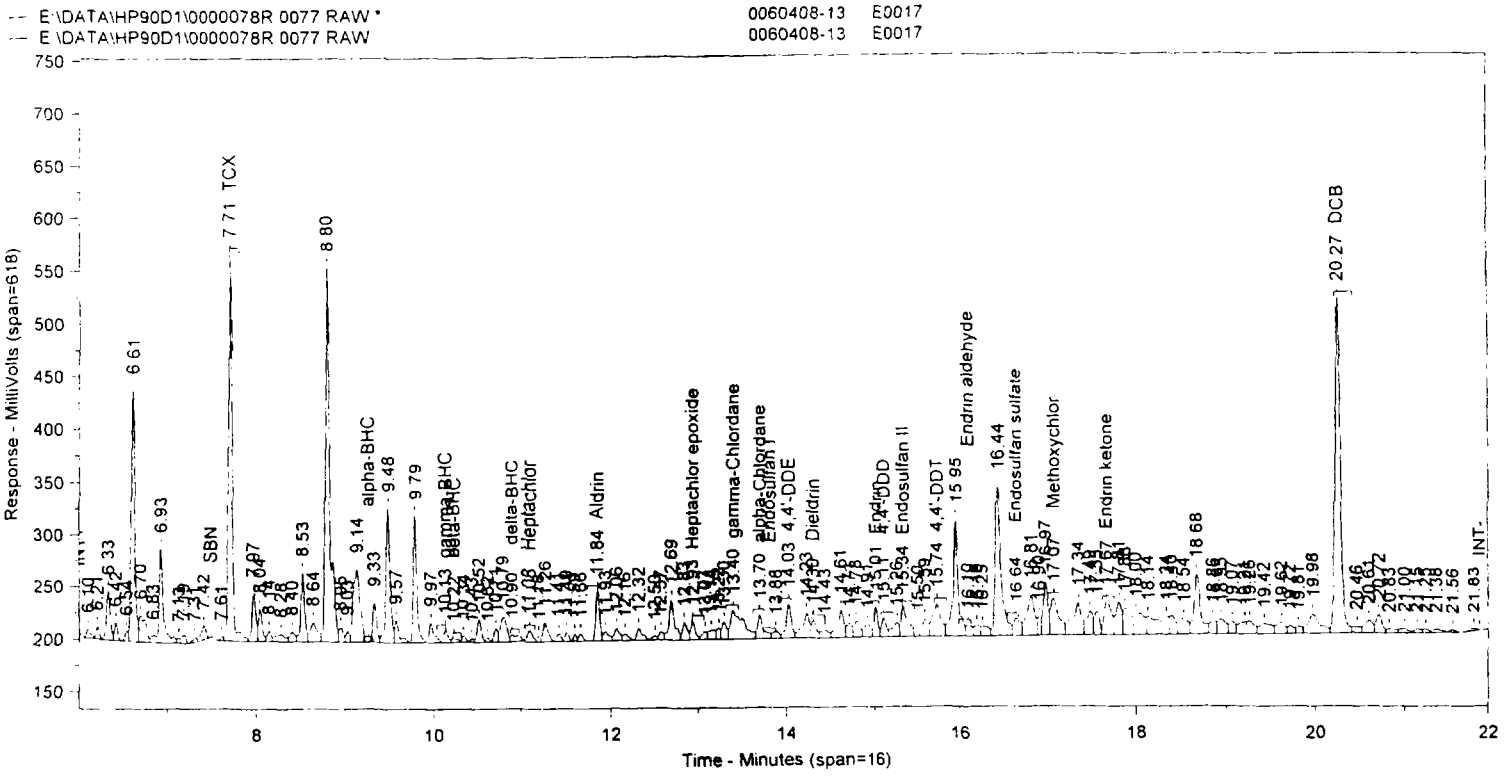
Sample Name = 0060408-13 E0017
Date Taken (start) = 4/21/06 16:35:22
Raw File Name = E:\DATA\HP90D1\0000078F.0077.RAW
Method File Name = E:\MET\D4.2DUALCOL1.MET
Calibration File Name = E:\CAL\DSOMCAL.cal

Instrument : HP90D1
Column: RTXCLP id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
6.09	73837		0.000
6.23	35634		0.000
6.45	16783		0.000
6.55	12908		0.000
6.62	168115	TCX	48.485
6.73	10275		0.000
6.86	8803		0.000
7.02	17916		0.000
7.12	10488		0.000
7.23	214765		0.000
7.49	12076		0.000
7.65	16556		0.000
7.99	19881	alpha-BHC	4.990
8.07	5118		0.000
8.15	8674		0.000
8.23	5546		0.000
8.36	44013		0.000
8.58	57184		0.000
8.81	15377		0.000
8.90	48398	beta-BHC	20.395
9.10	9981		0.000
9.24	15873	delta-BHC	4.378
9.47	16794		0.000
9.65	23205	Heptachlor	7.298
9.90	59372		0.000
10.07	28084		0.000
10.22	5913		0.000
10.38	8616		0.000

00072

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
10.46	6228		0.000
10.55	5054		0.000
10.94	32163		0.000
11.15	6737		0.000
11.24	25474		0.000
11.57	5026	Heptachlor epoxide	1.524
11.68	16660		0.000
11.81	16845	gamma-Chlordane	4.915
11.97	26390		0.000
12.21	15509		0.000
12.34	6899	4,4'-DDE	2.673
12.46	5926		0.000
12.55	8004		0.000
12.64	25644		0.000
12.82	16500	Dieldrin	5.381
13.38	35480	Endrin	15.543
13.55	14360	4,4'-DDD	5.892
13.92	12888		0.000
13.99	8625	4,4'-DDT	3.670
14.14	11095		0.000
14.26	15193		0.000
14.47	53415		0.000
14.62	9503	Endrin aldehyde	4.384
14.77	107426		0.000
15.00	7300	Methoxychlor	6.024
15.20	34535		0.000
15.28	10601		0.000
15.51	17616	Endosulfan sulfate	7.969
15.61	10966		0.000
15.68	11607		0.000
15.82	23982		0.000
15.90	9491		0.000
15.94	14519		0.000
16.14	25951		0.000
16.21	24336		0.000
16.40	5183		0.000
16.72	42053		0.000
16.95	6546		0.000
17.27	6131		0.000
17.34	7679		0.000
17.87	218990	DCB	91.694
18.05	14353		0.000
18.33	10089		0.000
18.44	12409		0.000
18.68	20686		0.000



Sample Name = 0060408-13 E0017
Date Taken (start) = 4/21/06 16:35:22
Raw File Name = E:\DATA\HP90D1\0000078R.0077.RAW
Method File Name = E:\MET\D4.2DUALCOL2.MET
Calibration File Name = E:\CAL\DSOMCALB.cal

Instrument : HP90D2
Column: RTXCLP2 id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
6.10	27557		0.000
6.21	28858		0.000
6.33	139577		0.000
6.42	43484		0.000
6.54	21950		0.000
6.61	665189		0.000
6.70	130541		0.000
6.83	28209		0.000
6.93	300765		0.000
7.13	11486		0.000
7.19	28459		0.000
7.31	15489		0.000
7.42	54008		0.000
7.61	10130		0.000
7.71	1020871	TCX	52.783
7.97	136022		0.000
8.04	89669		0.000
8.14	33787		0.000
8.28	55642		0.000
8.40	38887		0.000
8.53	202331		0.000
8.64	101742		0.000
8.80	1224999		0.000
8.95	48883		0.000
9.03	27755		0.000
9.14	373741		0.000
9.33	120251		0.000
9.48	416246		0.000

00074

Ret. Time (min)	Peak Area	Peak Name	Amount Fnd. ug/L
9.57	78545		0.000
9.79	349379		0.000
9.97	73876		0.000
10.13	41112	gamma-BHC	1.728
10.22	18831	beta-BHC	1.639
10.34	19012		0.000
10.43	8668		0.000
10.52	75358		0.000
10.62	11312		0.000
10.71	37358		0.000
10.79	121649		0.000
10.90	43038	delta-BHC	2.045
11.08	41739	Heptachlor	1.744
11.18	17766		0.000
11.26	74647		0.000
11.41	24189		0.000
11.49	25929		0.000
11.59	17442		0.000
11.66	24782		0.000
11.84	139031	Aldrin	6.100
11.93	41572		0.000
12.06	47612		0.000
12.16	30729		0.000
12.32	50939		0.000
12.50	13582		0.000
12.57	26745		0.000
12.69	169443		0.000
12.83	64584		0.000
12.93	66015	Heptachlor epoxide	3.226
13.07	28922		0.000
13.14	44426		0.000
13.23	32495		0.000
13.30	68875		0.000
13.40	278245	gamma-Chlordane	13.413
13.70	110243	alpha-Chlordane	5.389
13.88	37046		0.000
14.03	135313	4,4'-DDE	7.913
14.23	128946		0.000
14.30	62757	Dieldrin	3.297
14.43	48095		0.000
14.61	133946		0.000
14.71	55216		0.000
14.78	69690		0.000
14.91	66160		0.000
15.01	96352	Endrin	7.014
15.11	74671	4,4'-DDD	5.015
15.26	71616		0.000
15.34	158354	Endosulfan II	9.860
15.50	34794		0.000
15.59	89311		0.000
15.74	211481	4,4'-DDT	14.303
15.95	501012		0.000
16.10	50558	Endrin aldehyde	4.086
16.19	41875		0.000
16.25	62213		0.000
16.44	606933		0.000
16.64	97539	Endosulfan sulfate	7.433
16.81	220090		0.000
16.90	46383		0.000
16.97	199485		0.000
17.07	225999	Methoxychlor	32.790
17.34	242016		0.000
17.49	109579		0.000
17.55	85004		0.000
17.67	197655	Endrin ketone	12.760
17.81	148613		0.000
17.88	152229		0.000
18.00	165658		0.000

00075

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
18.14	145214		0.000
18.34	79920		0.000
18.40	83153		0.000
18.54	102531		0.000
18.68	287120		0.000
18.86	64808		0.000
18.95	87542		0.000
19.07	54352		0.000
19.21	68414		0.000
19.26	67009		0.000
19.42	94138		0.000
19.62	79621		0.000
19.72	35347		0.000
19.81	29392		0.000
19.98	180245		0.000
20.27	1339784	DCB	105.317
20.46	37322		0.000
20.61	78010		0.000
20.72	82125		0.000
20.83	25673		0.000
21.00	29522		0.000
21.15	22399		0.000
21.25	15293		0.000
21.38	21441		0.000
21.56	11790		0.000
21.83	14917		0.000

00076

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0018

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0002

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0000078F.0078.ZED

% Moisture: 49.0 Decanted: (Y/N) N Date Received: 04/~~12~~ 13/2006 ACH 7-13-06

Extraction: (Type) SONC Date Extracted: 04/18/2006

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/21/2006

Injection Volume: 0.1 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

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

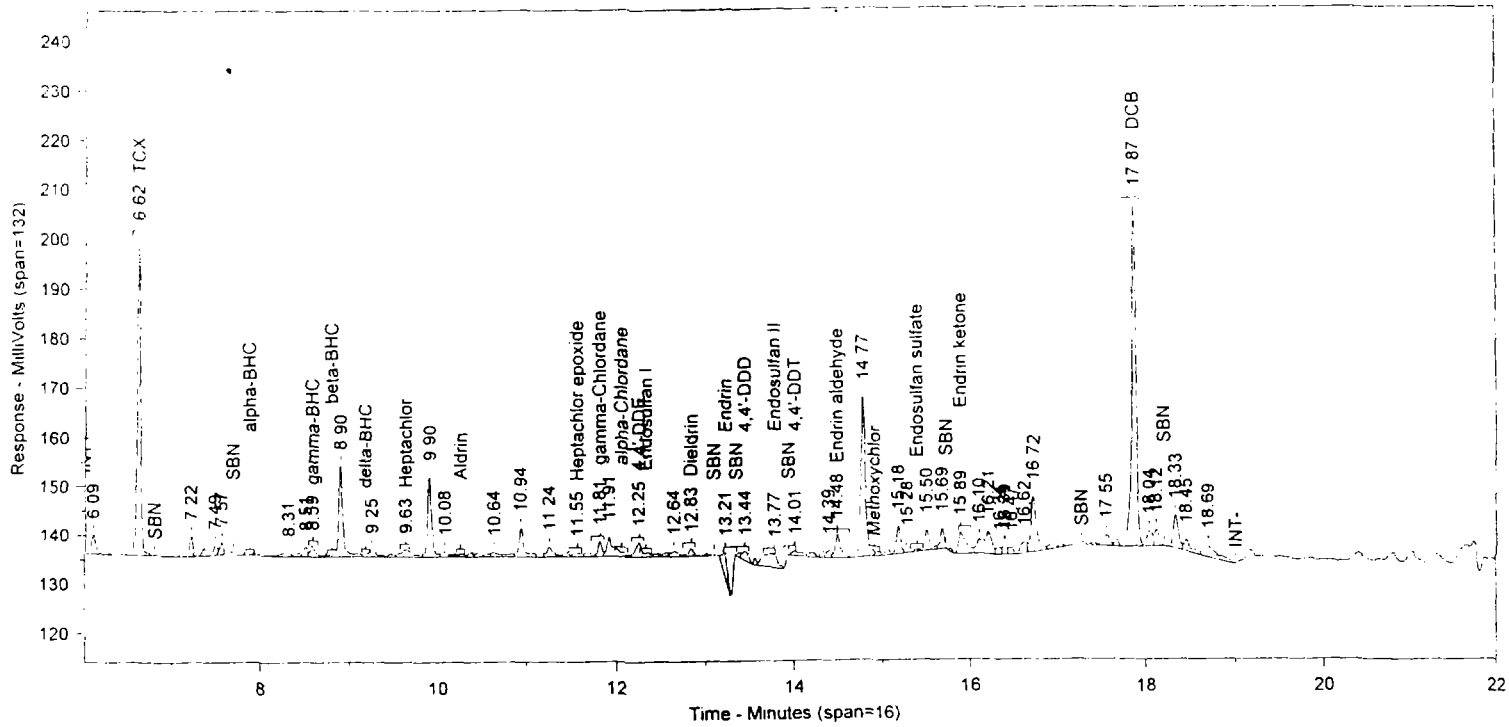
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q	
319-84-6	alpha-BHC	3.3	U	
319-85-7	beta-BHC	3.3	U	
319-86-8	delta-BHC	3.3	U	
58-89-9	gamma-BHC (Lindane)	~~0.30~~ 3.3	~~JBPU~~	
76-44-8	Heptachlor	~~0.31~~ 3.3	~~JBPU~~	
309-00-2	Aldrin	3.3	U	
1024-57-3	Heptachlor epoxide	~~0.46~~ 3.3	~~JBPU~~	
959-98-8	Endosulfan I	3.3	U	
60-57-1	Dieldrin	~~0.48~~ 6.5	~~JBPU~~	N.C.
72-55-9	4,4'-DDE	1.9 ~~1.8~~ 6.5	J ~~JBPU~~	*
72-20-8	Endrin	~~0.35~~ 6.5	~~JPU~~	N.C.
33213-65-9	Endosulfan II	~~0.48~~ 6.5	~~JBPU~~	N.C.
72-54-8	4,4'-DDD	~~0.52~~ 6.5	~~JPU~~	N.C.
1031-07-8	Endosulfan sulfate	6.5	U	
50-29-3	4,4'-DDT	6.5	U	N.C.
72-43-5	Methoxychlor	33	U	
53494-70-5	Endrin ketone	~~1.3~~ 6.5	~~JBPU~~	N.C.
7421-93-4	Endrin aldehyde	~~3.8~~ 6.5	~~JPU~~	N.C.
5103-71-9	alpha-Chlordane	3.3	U	
5103-74-2	gamma-Chlordane	~~0.39~~ 3.3	~~JBPU~~	N.C.
8001-35-2	Toxaphene	330	U	

N.C. Not confirmed on 2nd column.

ACH 7-13-06

00077

E \data\HP90D1\0000078F 0078 RAW * 0060408-14 E0018
E \data\HP90D1\0000078F 0078 RAW 0060408-14 E0018



Sample Name = 0060408-14 E0018
Date Taken (start) = 4/21/06 17:14:34
Raw File Name = E:\data\HP90D1\0000078F.0078.RAW
Method File Name = E:\MET\D4.2DUALCOL1.MET
Calibration File Name = E:\CAL\DSOM0501.cal

Instrument : HP90D1
Column: RTXCLP id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

ACH 7-19-06

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L	
6.09	15060		0.000	
6.62	178756	TCX	31.983	
7.22	12010		0.000	
7.49	7233		0.000	
7.57	6591		0.000	
8.31	5666		0.000	
8.51	5902		0.000	
8.59	9216	gamma-BHC	1.419	Out of R.T. window
8.90	62863		0.000	
9.25	10525		0.000	
9.63	13586	Heptachlor	2.457	R.T. window
9.90	53674		0.000	
10.08	6534		0.000	
10.64	8487		0.000	
10.94	23589		0.000	
11.24	10566		0.000	
11.55	5289	Heptachlor epoxide	1.024	
11.81	9555	gamma-Chlordane	1.856	
11.91	24522		0.000	
12.25	18354	4,4'-DDE	4.314	
12.64	6568		0.000	
12.83	6128	Dieldrin	1.194	R.T. window
13.21	16174	Endrin	4.026	
13.44	9277	4,4'-DDD	2.385	
13.77	31213	Endosulfan II	6.746	
14.01	6912	4,4'-DDT	1.620	
14.39	5278		0.000	
14.48	20654	Endrin aldehyde	5.876	R.T. window

00078

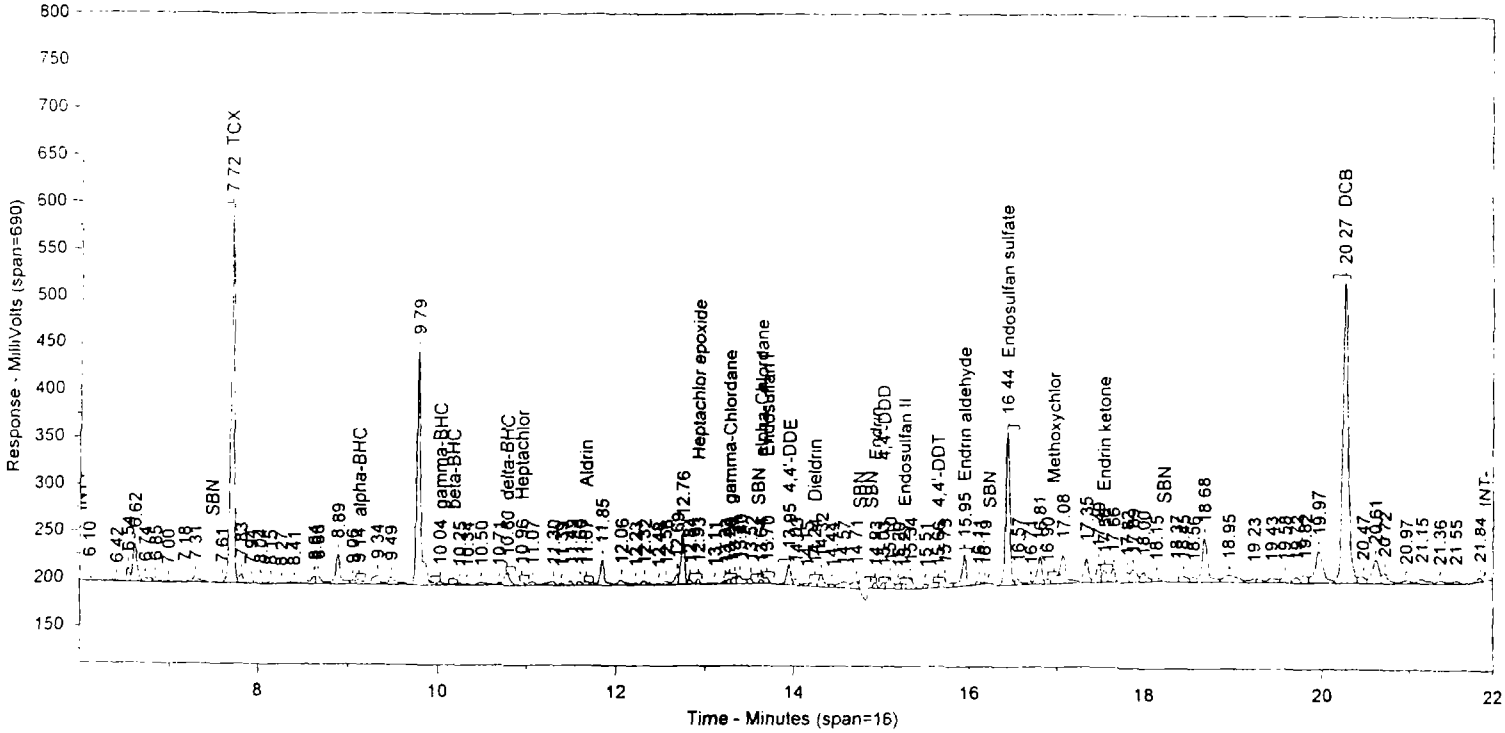
Ret Time (min)	Peak Area	Peak Name	Amount Fnd. ug/L
14.77	117737		0.000
15.18	18436		0.000
15.28	7773		0.000
15.50	17250		0.000
~~15.69~~	12843		0.000
15.89	27787	Endrin ketone	5.589
~~16.10~~	15828		0.000
16.21	23650		0.000
16.34	5722		0.000
16.39	5993		0.000
16.47	5664		0.000
16.62	10685		0.000
16.72	51509		0.000
17.55	11757		0.000
17.87	241139	DCB	60.294
18.04	14059		0.000
18.12	11917		0.000
18.33	26694		0.000
18.45	13272		0.000
18.69	24211		0.000

R.T. window

ACA
7-19-06

00079

E:\data\HP90D1\0000078R.0078.RAW * 0060408-14 E0018
E:\data\HP90D1\0000078R.0078.RAW 0060408-14 E0018



Sample Name = 0060408-14 E0018
Date Taken (start) = 4/21/06 17:14:34
Raw File Name = E:\data\HP90D1\0000078R.0078.RAW
Method File Name = E:\MET\D4.2DUALCOL2.MET
Calibration File Name = E:\CAL\DSOM0501B.cal

Instrument : HP90D2
Column: RTXCLP2 id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

ACH
7-19-06

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
6.10	22003		0.000
6.42	5614		0.000
6.54	43070		0.000
6.62	131066		0.000
6.74	24822		0.000
6.85	14135		0.000
7.00	12920		0.000
7.18	15271		0.000
7.31	33680		0.000
7.61	10958		0.000
7.72	1052288	TCX	33.079
7.83	30938		0.000
7.94	12630		0.000
8.04	11828		0.000
8.15	8390		0.000
8.27	5894		0.000
8.41	13115		0.000
8.64	36166		0.000
8.68	39316		0.000
8.89	121225		0.000
9.06	12997		0.000
9.14	22847	alpha-BHC	0.536
9.34	51024		0.000
9.49	44853		0.000
9.79	781961		0.000
10.04	17823	gamma-BHC	0.453
10.25	11426		0.000
10.34	7428		0.000

R.T. window

00080

Ret Time (min)	Peak Area	Peak Name	Amount Fnd. ug/L	
10.50	22055		0.000	
10.71	6275		0.000	
10.80	61120	delta-BHC	1.677	R.T. window
10.96	18599	Heptachlor	0.481	R.T.
11.07	18350		0.000	
11.30	24752		0.000	
11.39	8779		0.000	
11.49	13969		0.000	
11.60	13115		0.000	
11.67	13623	Aldrin	0.397	R.T.
11.85	92565		0.000	
12.06	29792		0.000	
12.23	5886		0.000	
12.32	19918		0.000	
12.48	5170		0.000	
12.56	13381		0.000	
12.69	32838		0.000	
12.76	158886		0.000	
12.84	13642		0.000	
12.93	14676	Heptachlor epoxide	0.464	
13.11	8935		0.000	
13.23	9869		0.000	
13.28	14045	gamma-Chlordane	0.438	R.T.
13.34	20276		0.000	
13.40	37161		0.000	
13.52	20335		0.000	
13.64	10607	alpha-Chlordane	0.341	
13.70	20357	Endosulfan I	0.678	R.T.
13.95	71285	4,4'-DDE	2.765	
14.03	22446		0.000	
14.15	10006		0.000	
14.24	27275	Dieldrin	0.965	R.T.
14.32	58667		0.000	
14.44	12571		0.000	
14.57	50762		0.000	
14.71	37545		0.000	
14.93	19684	Endrin	0.907	
15.03	21127	4,4'-DDD	0.907	R.T.
15.10	50550		0.000	
15.20	24734		0.000	
15.27	18109	Endosulfan II	0.768	R.T.
15.34	48817		0.000	
15.51	16293		0.000	
15.66	34180	4,4'-DDT	1.492	- Out of R.T. window
15.73	54698		0.000	
15.95	129875	Endrin aldehyde	7.592	R.T.
16.11	12884		0.000	
16.19	5171		0.000	
16.44	553659	Endosulfan sulfate	28.374	R.T.
16.57	25904		0.000	
16.71	9458		0.000	
16.81	108041		0.000	
16.90	19262		0.000	
17.08	179597		0.000	
17.35	96439		0.000	
17.49	79307		0.000	
17.56	43666	Endrin ketone	2.026	R.T.
17.66	48296		0.000	
17.82	46833		0.000	
17.89	71855		0.000	
18.00	50723		0.000	
18.15	22233		0.000	
18.37	34463		0.000	
18.45	37658		0.000	
18.56	23590		0.000	
18.68	211654		0.000	
18.95	80047		0.000	
19.23	20589		0.000	

ACH
7-19-06

00081

Ret Time (min)	Peak Area	Peak Name	Amount Fnd. ug/L
19.43	31940		0.000
19.58	28863		0.000
19.72	27121		0.000
19.82	36176		0.000
19.97	216630		0.000
20.27	1388840	DCB	77.135
20.47	40962		0.000
20.61	134620		0.000
20.72	62878		0.000
20.97	21588		0.000
21.15	37245		0.000
21.36	27045		0.000
21.55	15484		0.000
21.84	20083		0.000

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0019

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0002

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0000078F.0079.ZED

% Moisture: 39.0 Decanted: (Y/N) N Date Received: 04/~~12~~ 14/2006 ACH 7-17-06

Extraction: (Type) SONC Date Extracted: 04/18/2006

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/21/2006

Injection Volume: 0.1 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

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

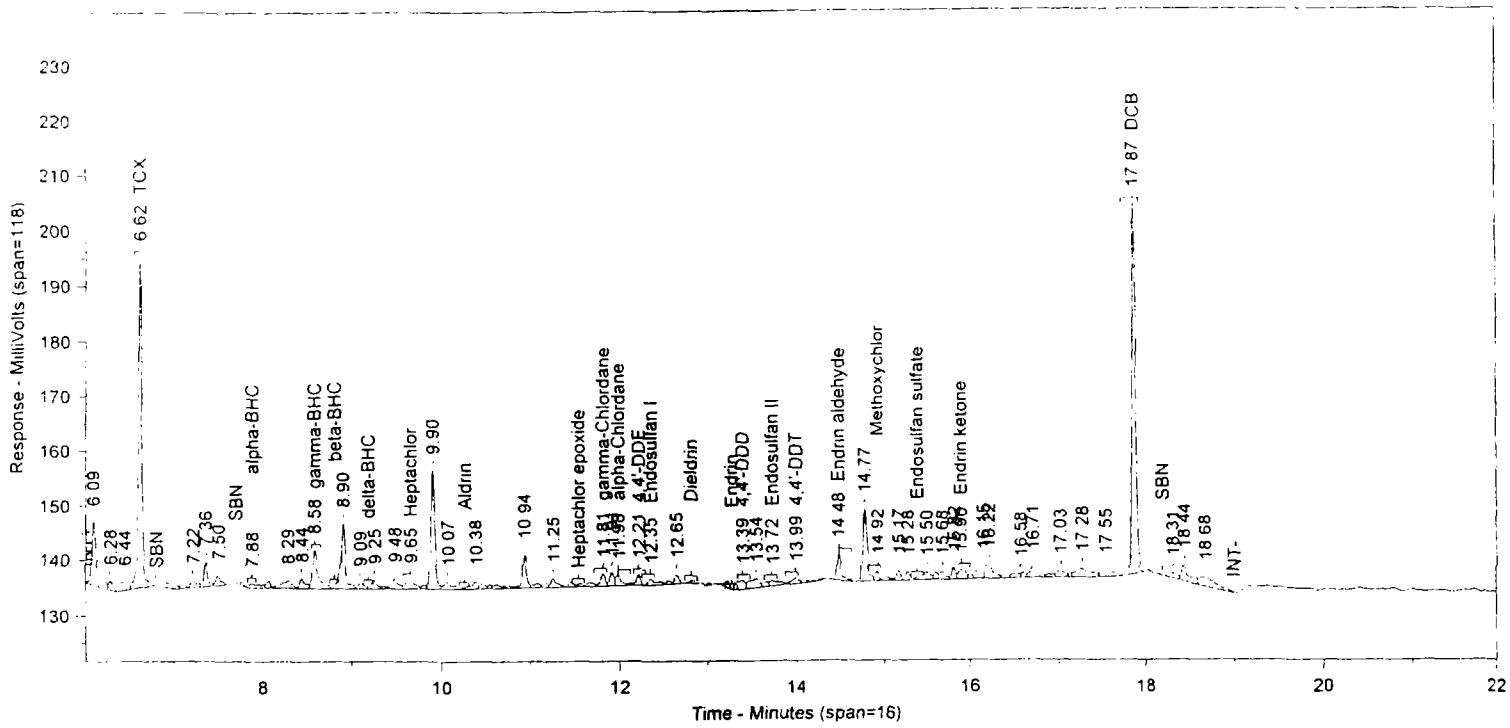
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q	
319-84-6	alpha-BHC	~~0.53~~ 2.8	~~JP~~U	N.C.
319-85-7	beta-BHC	2.8	U	
319-86-8	delta-BHC	2.8	U	
58-89-9	gamma-BHC (Lindane)	~~0.69~~ 2.8	~~JBP~~U	N.C.
76-44-8	Heptachlor	~~0.36~~ 2.8	~~JBP~~U	N.C.
309-00-2	Aldrin	2.8	U	
1024-57-3	Heptachlor epoxide	2.8	U	
959-98-8	Endosulfan I	~~0.75~~ 28	~~J~~U	N.C.
60-57-1	Dieldrin	5.4	U	
72-55-9	4,4'-DDE	~~0.43~~ 5.4	~~JBP~~U	N.C.
72-20-8	Endrin	5.4	U	
33213-65-9	Endosulfan II	~~0.45~~ 5.4	~~JBP~~U	N.C.
72-54-8	4,4'-DDD	~~0.16~~ 5.4	~~JP~~U	N.C.
1031-07-8	Endosulfan sulfate	5.4	U	
50-29-3	4,4'-DDT	~~0.26~~ 5.4	~~JBP~~U	N.C.
72-43-5	Methoxychlor	~~1.3~~ 28	~~JP~~U	[illegible]
53494-70-5	Endrin ketone	~~0.81~~ 5.4	~~JBP~~U	N.C.
7421-93-4	Endrin aldehyde	~~2.6~~ 5.4	~~JP~~U	N.C.
5103-71-9	alpha-Chlordane	2.8	U	
5103-74-2	gamma-Chlordane	~~0.32~~ 2.8	~~JBP~~U	N.C.
8001-35-2	Toxaphene	280	U	

NC Detection not confirmed on 2nd column.

ACH 7-13-06

00083

E:\data\HP90D1\0000078F.0079.RAW * 0060408-15 E0019
E:\data\HP90D1\0000078F.0079.RAW 0060408-15 E0019



Sample Name = 0060408-15 E0019
Date Taken (start) = 4/21/06 17:53:36
Raw File Name = E:\data\HP90D1\0000078F.0079.RAW
Method File Name = E:\MET\D4.2DUALCOL1.MET
Calibration File Name = E:\CAL\DSOM0501.cal

Instrument : HP90D1
Column: RTXCLP id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

ACK 7-19-06

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L	
6.09	46758		0.000	
6.28	6011		0.000	
6.44	11493		0.000	
6.62	165317	TCX	29.579	
7.22	6917		0.000	
7.36	12546		0.000	
7.50	7667		0.000	
7.88	6421	alpha-BHC	0.969	R.T. window
8.29	10876		0.000	
8.44	8493		0.000	
8.58	31115	gamma-BHC	4.791	R.T.
8.90	46244		0.000	
9.09	5204		0.000	
9.25	8955		0.000	
9.48	8472		0.000	
9.65	12449	Heptachlor	2.251	
9.90	67199		0.000	
10.07	8949		0.000	
10.38	7925		0.000	
10.94	19658		0.000	
11.25	8698		0.000	
11.81	9187	gamma-Chlordane	1.784	
11.91	8155		0.000	
11.98	8391	alpha-Chlordane	1.667	R.T.
12.21	6504	4,4'-DDE	1.529	
12.35	7423	Endosulfan I	1.477	
12.65	6206		0.000	
13.39	11786	4,4'-DDD	3.031	R.T.

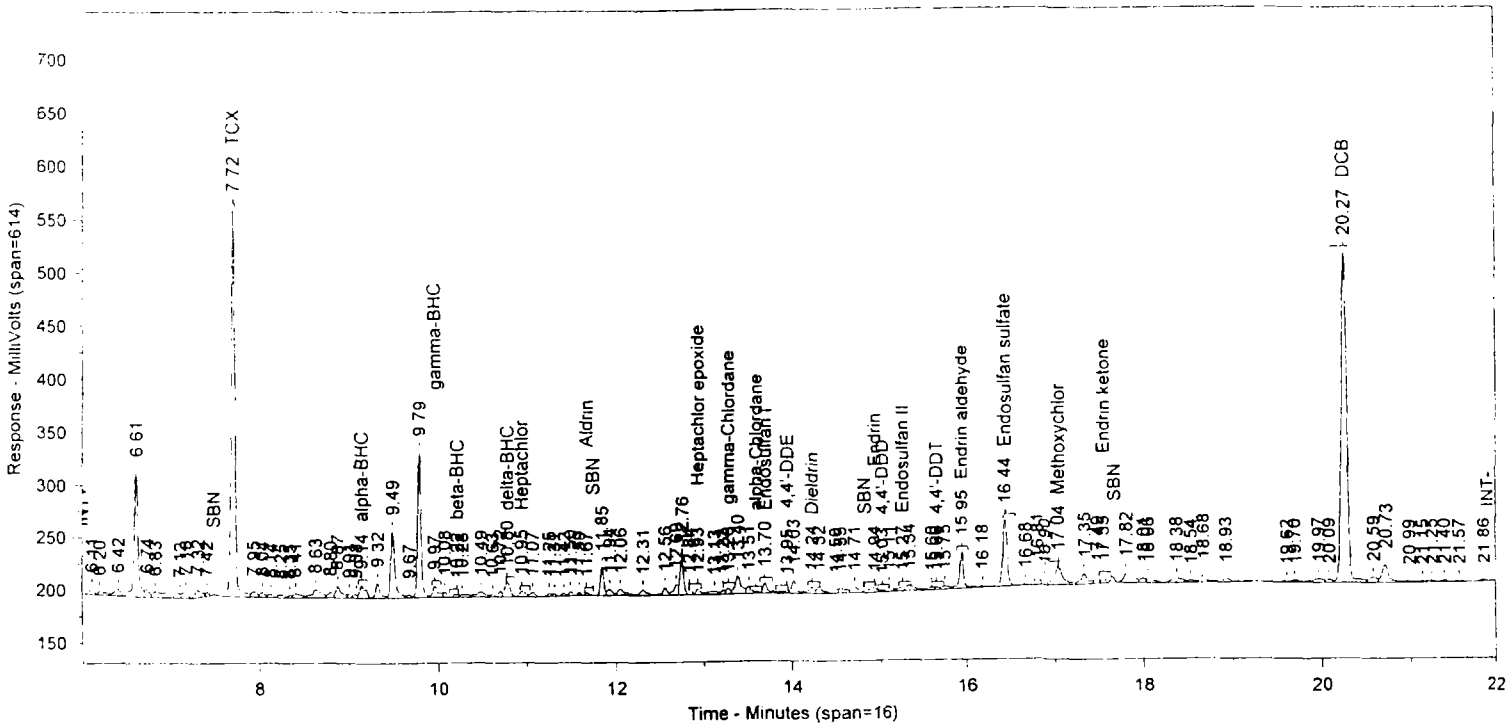
00084

Ret Time (min)	Peak Area	Peak Name	Amount Fnd. ug/L	
13.54	13678		0.000	
13.72	7396	Endosulfan II	1.599	
13.99	5989	4,4'-DDT	1.404	
14.48	16504	Endrin aldehyde	4.695	R.T.
14.77	44758		0.000	
14.92	5789	Methoxychlor	2.393	
15.17	7228		0.000	
15.28	6086		0.000	
15.50	10297		0.000	
15.68	6653		0.000	
15.82	6968		0.000	
15.90	10271	Endrin ketone	2.066	R.T.
16.15	11885		0.000	
16.22	16869		0.000	
16.58	5313		0.000	
16.71	12835		0.000	
17.03	7098		0.000	
17.28	17584		0.000	
17.55	10800		0.000	
17.87	206647	DCB	51.670	
18.31	5783		0.000	
18.44	17112		0.000	
18.68	21945		0.000	

GCA
2-19-06

00085

E \data\HP90D1\0000078R 0079 RAW * 0060408-15 E0019
E \data\HP90D1\0000078R 0079 RAW 0060408-15 E0019



Sample Name = 0060408-15 E0019
Date Taken (start) = 4/21/06 17:53:36
Raw File Name = E:\data\HP90D1\0000078R.0079.RAW
Method File Name = E:\MET\D4.2DUALCOL2.MET
Calibration File Name = E:\CAL\DSOM0501B.cal

Instrument : HP90D2
Column: RTXCLP2 id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

ACA
7-19-06

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
6.11	20007		0.000
6.20	20153		0.000
6.42	29797		0.000
6.61	380049		0.000
6.74	25289		0.000
6.83	60962		0.000
7.12	18908		0.000
7.18	29619		0.000
7.32	36240		0.000
7.42	10800		0.000
7.72	1021742	TCX	32.119
7.95	22015		0.000
8.04	17232		0.000
8.14	12736		0.000
8.25	16661		0.000
8.35	8659		0.000
8.41	26102		0.000
8.63	55917		0.000
8.80	20682		0.000
8.87	53987		0.000
9.01	10180		0.000
9.08	10212		0.000
9.14	57066	alpha-BHC	1.338
9.32	52115		0.000
9.49	208071		0.000
9.67	11634		0.000
9.79	396264		0.000
9.97	49765	gamma-BHC	1.265

R.T. window

00086

acl
7-19-06

Ret Time (min.)	Peak Area	Peak Name	Amount Fnd ug/L	
10.08	16017		0.000	
10.22	11849	beta-BHC	0.624	
10.28	16646		0.000	
10.49	37568		0.000	
10.63	8585		0.000	
10.72	16691		0.000	
10.80	57730	delta-BHC	1.584	R.T.
10.95	23966	Heptachlor	0.619	R.T.
11.07	15836		0.000	
11.25	11650		0.000	
11.31	6984		0.000	
11.42	8851		0.000	
11.50	12146		0.000	
11.59	6576		0.000	
11.67	8999	Aldrin	0.262	R.T.
11.85	79159		0.000	
11.94	24066		0.000	
12.06	37124		0.000	
12.31	25837		0.000	
12.56	26099		0.000	
12.69	34936		0.000	
12.76	98070		0.000	
12.84	15515		0.000	
12.93	18887	Heptachlor epoxide	0.598	
13.13	21056		0.000	
13.22	11432		0.000	
13.28	16765	gamma-Chlordane	0.523	R.T.
13.40	81774		0.000	
13.51	31680		0.000	
13.70	36394	Endosulfan I	1.212	R.T.
13.95	16071	4,4'-DDE	0.623	
14.03	49974		0.000	
14.24	25374	Dieldrin	0.897	R.T.
14.32	27502		0.000	
14.50	17506		0.000	
14.55	24808		0.000	
14.71	34249		0.000	
14.94	27368	Endrin	1.261	
15.03	5927	4,4'-DDD	0.254	R.T.
15.11	21214		0.000	
15.27	17032	Endosulfan II	0.722	R.T.
15.34	38116		0.000	
15.60	12000		0.000	
15.66	7826	4,4'-DDT	0.342	R.T.
15.75	16989		0.000	
15.95	124852	Endrin aldehyde	7.299	R.T.
16.18	8620		0.000	
16.44	220441	Endosulfan sulfate	11.297	R.T.
16.68	5196		0.000	
16.81	38681		0.000	
16.90	17055		0.000	
17.04	114333	Methoxychlor	11.757	
17.35	58000		0.000	
17.49	19621		0.000	
17.55	18307	Endrin ketone	0.849	R.T.
17.82	68057		0.000	
18.01	17804		0.000	
18.06	22772		0.000	
18.38	37127		0.000	
18.54	11351		0.000	
18.68	34488		0.000	
18.93	22971		0.000	
19.62	6989		0.000	
19.70	9477		0.000	
19.97	30087		0.000	
20.09	13634		0.000	
20.27	1298313	DCB	72.107	
20.59	29941		0.000	

00087

Ret Time (min)	Peak Area	Peak Name	Amount Fnd. ug/L
20.73	86178		0.000
20.99	9410		0.000
21.15	7887		0.000
21.25	9845		0.000
21.40	12985		0.000
21.57	9968		0.000
21.86	5978		0.000

00088

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0027

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0002

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0000078F.0080.ZED

% Moisture: 29.0 Decanted: (Y/N) N Date Received: 04/~~12~~ 14/2006 ACH 7-17-06

Extraction: (Type) SONC Date Extracted: 04/18/2006

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/21/2006

Injection Volume: 0.1 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

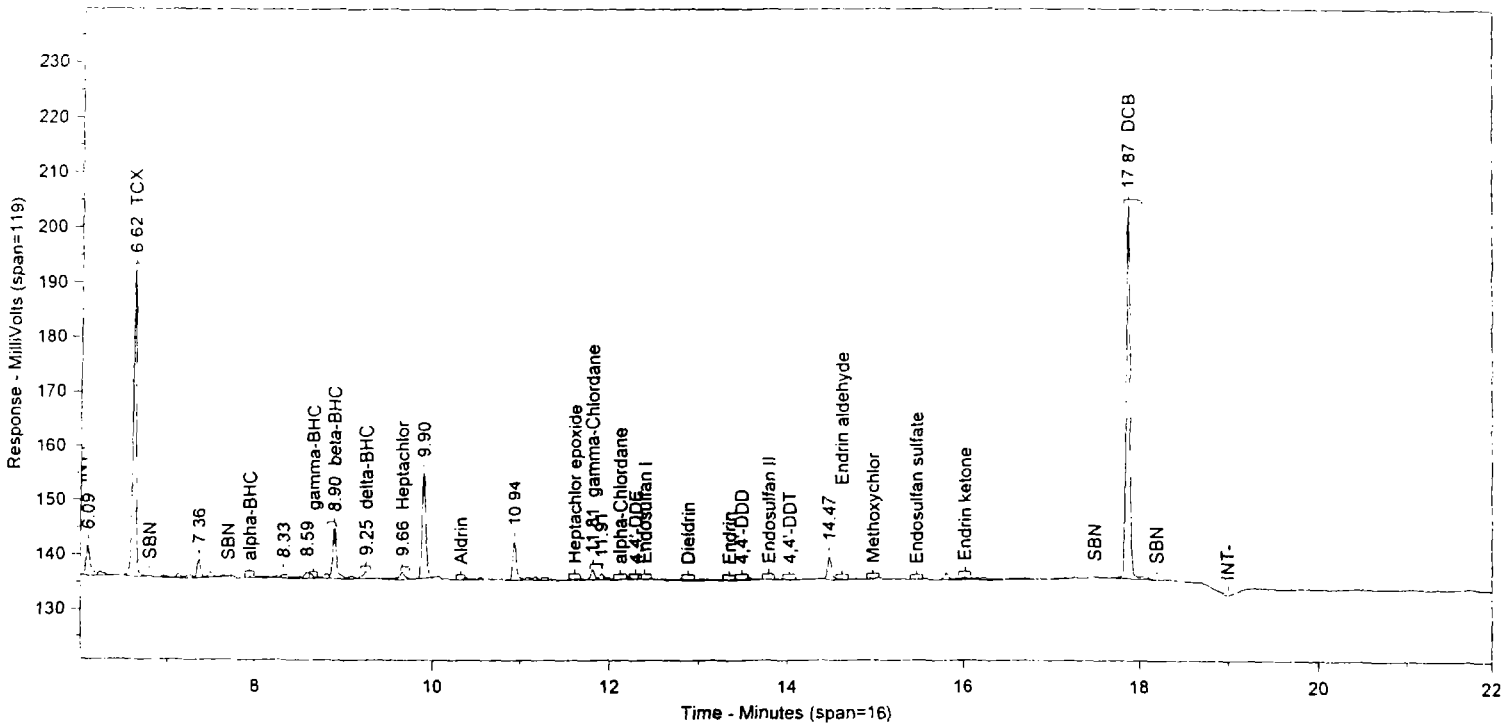
GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
319-84-6	alpha-BHC	2.4	U
319-85-7	beta-BHC	2.4 *	U
319-86-8	delta-BHC	2.4 *	U
58-89-9	gamma-BHC (Lindane)	0 ~~12~~ 24	~~JBPU~~
76-44-8	Heptachlor	0 ~~17~~ 24	~~JBPU~~
309-00-2	Aldrin	2.4	U
1024-57-3	Heptachlor epoxide	2.4	U
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	4.6	U
72-55-9	4,4'-DDE	4.6	U
72-20-8	Endrin	4.6	U
33213-65-9	Endosulfan II	4.6	U
72-54-8	4,4'-DDD	4.6	U
1031-07-8	Endosulfan sulfate	4.6	U
50-29-3	4,4'-DDT	4.6	U
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	4.6	U
7421-93-4	Endrin aldehyde	4.6	U
5103-71-9	alpha-Chlordane	2.4	U
5103-74-2	gamma-Chlordane	0 ~~18~~ 24	~~JBPU~~
8001-35-2	Toxaphene	240	U

* Detected compound not reported.

ACH 7-13-06

— E:\DATA\HP90D1\0000078F.0080.RAW * 0060408-16 E0027
— E:\DATA\HP90D1\0000078F.0080.RAW 0060408-16 E0027



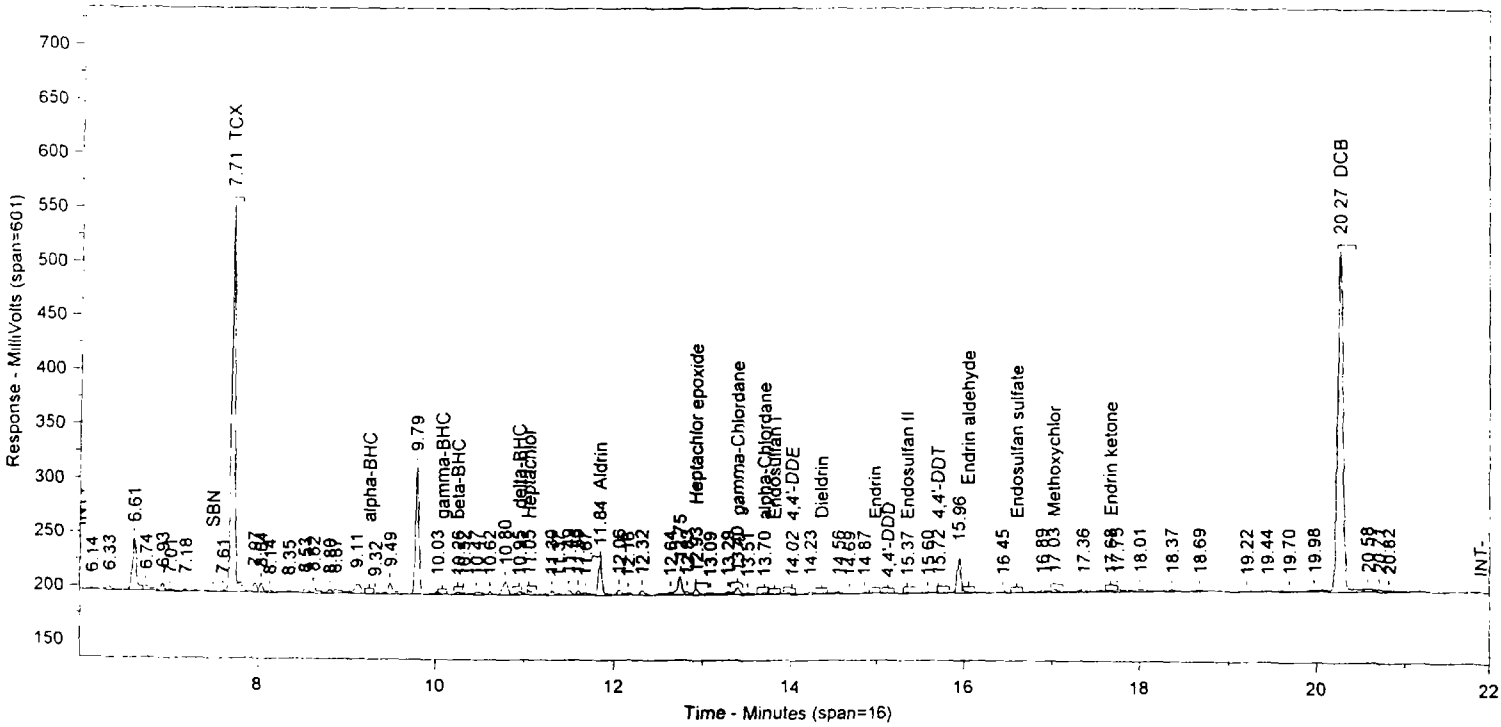
Sample Name = 0060408-16 E0027
Date Taken (start) = 4/21/06 18:32:45
Raw File Name = E:\DATA\HP90D1\0000078F.0080.RAW
Method File Name = E:\MET\D4.2DUALCOL1.MET
Calibration File Name = E:\CAL\DSOMCAL.cal

Instrument : HP90D1
Column: RTXCLP id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
6.09	18754		0.000
6.62	149418	TCX	43.093
7.36	9385		0.000
8.33	5415		0.000
8.59	7056		0.000
8.90	29069	beta-BHC	12.250
9.25	5184	delta-BHC	1.430
9.66	7351	Heptachlor	2.312
9.90	57430		0.000
10.94	23613		0.000
11.81	5924	gamma-Chlordane	1.729
11.91	5456		0.000
14.47	14108		0.000
17.87	214853	DCB	89.962

00090

-- E:\DATA\HP90D1\0000078R.0080.RAW * 0060408-16 E0027
-- E:\DATA\HP90D1\0000078R.0080.RAW 0060408-16 E0027



Sample Name = 0060408-16 E0027
Date Taken (start) = 4/21/06 18:32:45
Raw File Name = E:\DATA\HP90D1\0000078R.0080.RAW
Method File Name = E:\MET\D4.2DUALCOL2.MET
Calibration File Name = E:\CAL\DSOMCALB.cal

Instrument : HP90D2
Column: RTXCLP2 id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
6.14	7277		0.000
6.33	18947		0.000
6.61	151324		0.000
6.74	24985		0.000
6.93	20006		0.000
7.01	9220		0.000
7.18	5527		0.000
7.61	5166		0.000
7.71	977040	TCX	50.517
7.97	26366		0.000
8.04	23940		0.000
8.14	12560		0.000
8.35	5853		0.000
8.53	12711		0.000
8.62	24293		0.000
8.80	11133		0.000
8.87	19663		0.000
9.11	55635		0.000
9.32	5447		0.000
9.49	37910		0.000
9.79	328235		0.000
10.03	10295		0.000
10.26	11321	beta-BHC	0.985
10.32	10264		0.000
10.47	16751		0.000
10.62	7669		0.000
10.80	52251		0.000
10.95	13846	delta-BHC	0.658

00091

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
11.05	19665	Heptachlor	0.822
11.30	12108		0.000
11.37	5088		0.000
11.49	13342		0.000
11.59	12013		0.000
11.67	11085		0.000
11.84	96463	Aldrin	4.233
12.06	15828		0.000
12.16	9754		0.000
12.32	17448		0.000
12.64	7127		0.000
12.75	60934		0.000
12.83	8530		0.000
12.93	22600	Heptachlor epoxide	1.105
13.09	15913		0.000
13.29	11950		0.000
13.40	24872	gamma-Chlordane	1.199
13.51	13325		0.000
13.70	11836	alpha-Chlordane	0.579
14.02	13023	4,4'-DDE	0.762
14.23	15378		0.000
14.56	5753		0.000
14.69	6164		0.000
14.87	6899		0.000
15.37	8156	Endosulfan II	0.508
15.60	5115		0.000
15.72	9403	4,4'-DDT	0.636
15.96	112478		0.000
16.45	7675		0.000
16.89	14294		0.000
17.03	19847	Methoxychlor	2.880
17.36	21087		0.000
17.68	6605	Endrin ketone	0.426
17.75	23119		0.000
18.01	17887		0.000
18.37	17826		0.000
18.69	5554		0.000
19.22	14318		0.000
19.44	5020		0.000
19.70	14304		0.000
19.98	26202		0.000
20.27	1308420	DCB	102.852
20.58	18421		0.000
20.71	15350		0.000
20.82	16959		0.000

00092

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0028

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: _____ SDG No.: E0002

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0000078F.0081.ZED

% Moisture: 12.0 Decanted: (Y/N) N Date Received: 04/~~12~~ 14/2006 ACH 7-17-06

Extraction: (Type) SONC Date Extracted: 04/18/2006

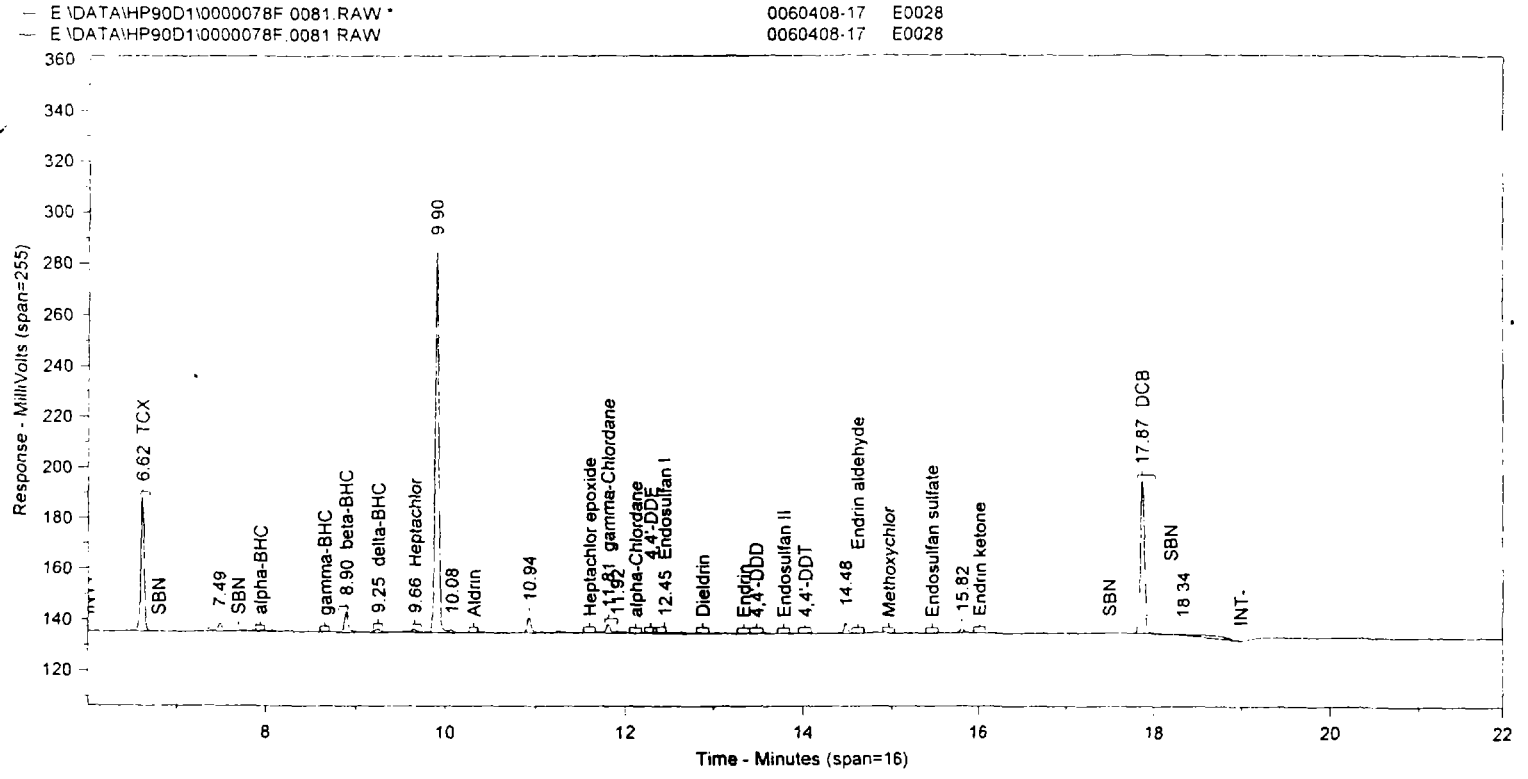
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/21/2006

Injection Volume: 0.1 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	~~0.21~~ 1.9	~~JBPU~~ MB
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	~~1.6~~ 3.8	~~JPU~~
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	~~0.42~~ 1.9	~~JBPU~~
8001-35-2	Toxaphene	190	U

ACH 7-13-06



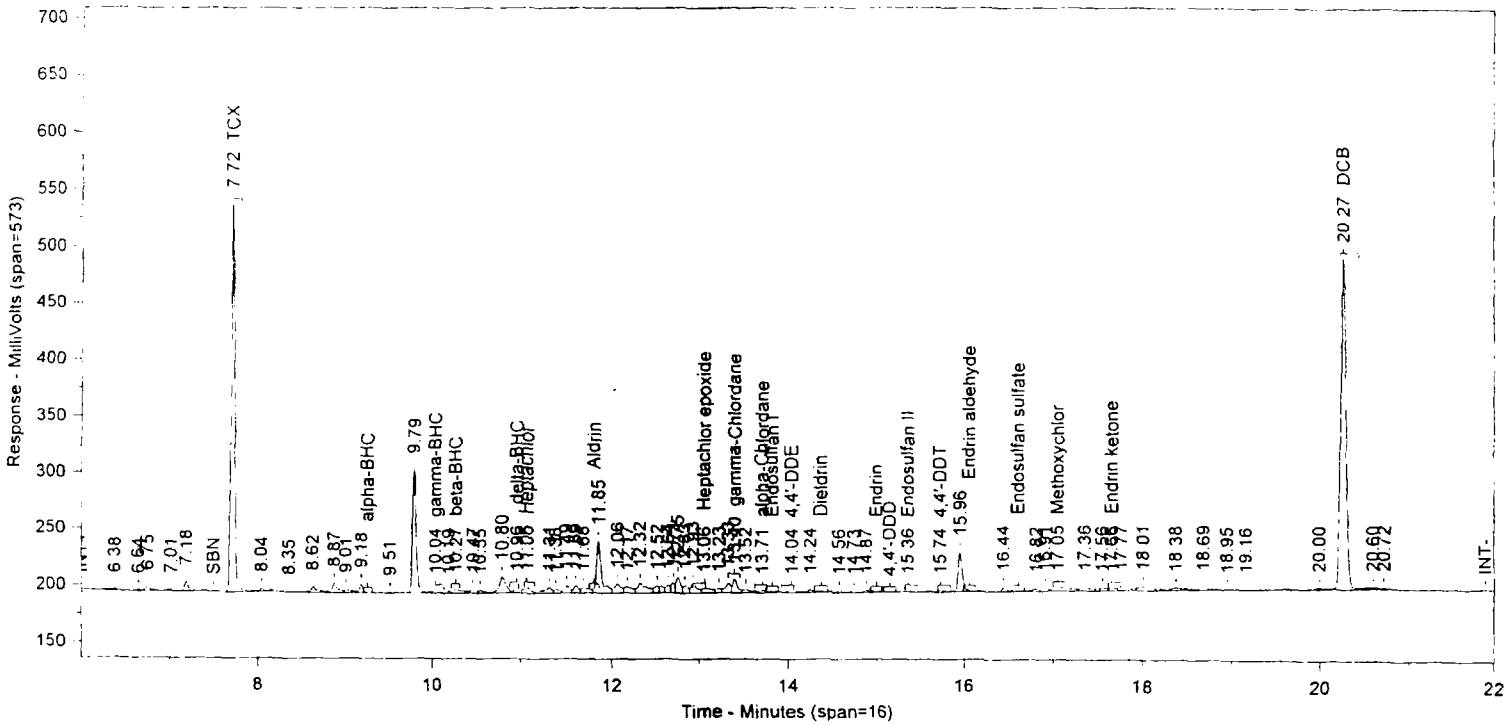
Sample Name = 0060408-17 E0028
Date Taken (start) = 4/21/06 19:11:49
Raw File Name = E:\DATA\HP90D1\0000078F.0081.RAW
Method File Name = E:\MET\D4.2DUALCOL1.MET
Calibration File Name = E:\CAL\DSOMCAL.cal

Instrument : HP90D1
Column: RTXCLP id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
6.62	138559	TCX	39.961
7.49	11391		0.000
8.90	26497	beta-BHC	11.166
9.25	7022	delta-BHC	1.937
9.66	8057	Heptachlor	2.534
9.90	442402		0.000
10.08	6415		0.000
10.94	19191		0.000
11.81	11487	gamma-Chlordane	3.352
11.92	5170		0.000
12.45	11443	Endosulfan I	3.666
14.48	14952		0.000
15.82	5497		0.000
17.87	190573	DCB	79.795
18.34	26121		0.000

00094

E:\DATA\HP90D1\0000078R.0081.RAW * 0060408-17 E0028
E:\DATA\HP90D1\0000078R.0081.RAW 0060408-17 E0028



Sample Name = 0060408-17 E0028
Date Taken (start) = 4/21/06 19:11:49
Raw File Name = E:\DATA\HP90D1\0000078R.0081.RAW
Method File Name = E:\MET\D4.2DUALCOL2.MET
Calibration File Name = E:\CAL\DSOMCALB.cal

Instrument : HP90D2
Column: RTXCLP2 id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
6.38	8049		0.000
6.64	5575		0.000
6.75	21158		0.000
7.01	9745		0.000
7.18	24888		0.000
7.72	918733	TCX	47.502
8.04	7000		0.000
8.35	8634		0.000
8.62	26734		0.000
8.87	35014		0.000
9.01	16777		0.000
9.18	20263		0.000
9.51	5028		0.000
9.79	310824		0.000
10.04	10250	gamma-BHC	0.431
10.19	6583		0.000
10.27	24782	beta-BHC	2.157
10.47	14814		0.000
10.55	12203		0.000
10.80	67287		0.000
10.96	21196	delta-BHC	1.007
11.06	26824	Heptachlor	1.121
11.31	30590		0.000
11.38	12473		0.000
11.49	25077		0.000
11.59	22537		0.000
11.68	31794		0.000
11.85	172688		0.000

00095

Ret. Time (min)	Peak Area	Peak Name	Amount Fnd. ug/L
12 06	41516		0.000
12.17	33832		0.000
12 32	65332		0.000
12 52	21830		0.000
12.64	22818		0.000
12.71	24058		0.000
12.75	47142		0.000
12 83	27987		0.000
12.93	41315		0.000
13.06	30828	Heptachlor epoxide	1.507
13.23	13756		0.000
13.33	35233		0.000
13 40	44694	gamma-Chlordane	2.155
13.52	20219		0.000
13.71	13094	alpha-Chlordane	0.640
14.04	11275	4,4'-DDE	0.659
14.24	19193		0.000
14.56	6624		0.000
14.73	7092		0.000
14.87	12350		0.000
15.36	8683	Endosulfan II	0.541
15.74	9547	4,4'-DDT	0.646
15.96	115283		0.000
16.44	23956		0.000
16.82	8676		0.000
16.91	16734		0.000
17.05	43990	Methoxychlor	6.382
17.36	26864		0.000
17.56	12704		0.000
17.66	14154	Endrin ketone	0.914
17.77	24937		0.000
18.01	47760		0.000
18.38	25610		0.000
18.69	21259		0.000
18.95	8314		0.000
19.16	5926		0.000
20.00	19836		0.000
20.27	1190453	DCB	93.578
20.60	17990		0.000
20.72	8623		0.000

00096

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E0029

Lab Name: Envirosystems, Inc. Contract: EPW05033

Lab Code: ENVSYS Case No.: 35229 Mod. Ref No.: SDG No.: E0002

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 0060408-18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0000078R.0082.ZED

% Moisture: 41.0 Decanted: (Y/N) N Date Received: 04/~~12~~ 14/2006 aCH 7-17-06

Extraction: (Type) SONC Date Extracted: 04/18/2006

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/21/2006

Injection Volume: 0.1 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

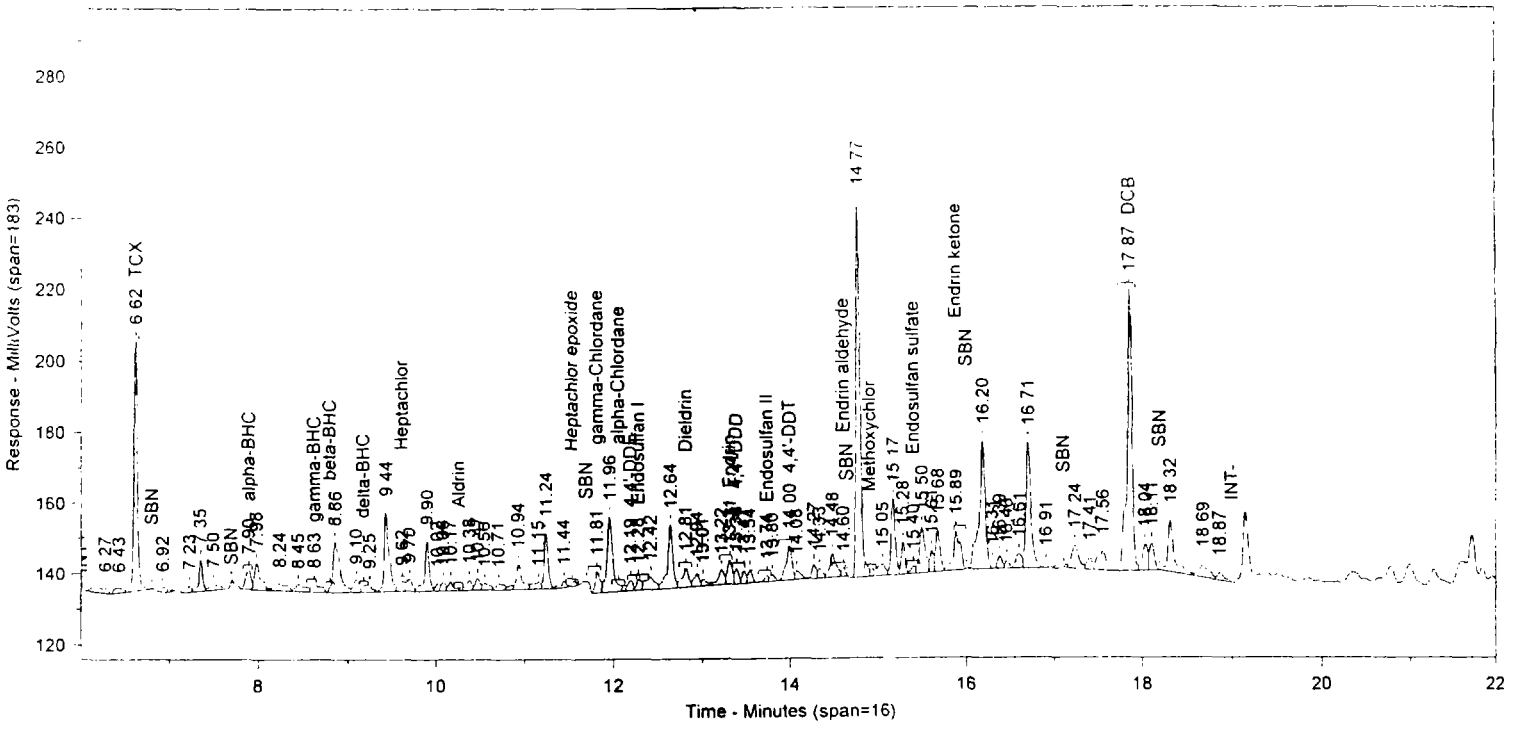
GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
319-84-6	alpha-BHC	~~1.2~~ 2.9	~~JBPU~~
319-85-7	beta-BHC	2.9	U
319-86-8	delta-BHC	2.9	U
58-89-9	gamma-BHC (Lindane)	~~1.3~~ 2.9	~~JPU~~
76-44-8	Heptachlor	~~1.3~~ 2.9	~~JBU~~
309-00-2	Aldrin	2.9	U
1024-57-3	Heptachlor epoxide	2.9	U
959-98-8	Endosulfan I	~~1.1~~ 2.9	~~JPU~~
60-57-1	Dieldrin	~~2.5~~ 5.6	~~JPU~~
72-55-9	4,4'-DDE	~~1.2~~ 5.6	~~JBU~~
72-20-8	Endrin	1.8	JP
33213-65-9	Endosulfan II	~~0.67~~ 5.6	~~JPU~~
72-54-8	4,4'-DDD	~~0.46~~ 5.6	~~JPU~~
1031-07-8	Endosulfan sulfate	5.6	U
50-29-3	4,4'-DDT	~~1.9~~ 5.6	~~JBPU~~
72-43-5	Methoxychlor	29	U
53494-70-5	Endrin ketone	~~3.5~~ 5.6	~~JBPU~~
7421-93-4	Endrin aldehyde	~~1.6~~ 5.6	~~JPU~~
5103-71-9	alpha-Chlordane	2.9	U
5103-74-2	gamma-Chlordane	~~0.86~~ 2.9	~~JBPU~~
8001-35-2	Toxaphene	290	U

aCH
7-13-06

00097

E:\data\HP90D1\0000078F.0082.RAW * 0060408-18 E0029
E:\data\HP90D1\0000078F.0082.RAW 0060408-18 E0029



Sample Name = 0060408-18 E0029
Date Taken (start) = 4/21/06 19:51:00
Raw File Name = E:\data\HP90D1\0000078F.0082.RAW
Method File Name = E:\MET\D4.2DUALCOL1.MET
Calibration File Name = E:\CAL\DSOM0501.cal

Instrument : HP90D1
Column: RTXCLP id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

ACH 7-19-06

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
6.27	13530		0.000
6.43	9799		0.000
6.62	197824	TCX	35.395
6.92	5951		0.000
7.23	7735		0.000
7.35	27551		0.000
7.50	13582		0.000
7.90	22577	alpha-BHC	3.406
7.98	34551		0.000
8.24	15805		0.000
8.45	14018		0.000
8.63	15007	gamma-BHC	2.311
8.86	76349		0.000
9.10	16197		0.000
9.25	13483		0.000
9.44	86283		0.000
9.62	13546	Heptachlor	2.450
9.70	15741		0.000
9.90	53758		0.000
10.02	6292		0.000
10.08	8227		0.000
10.17	10908		0.000
10.38	11471		0.000
10.47	12803		0.000
10.56	11009		0.000
10.71	11210		0.000
10.94	31168		0.000
11.15	12561		0.000

R.T. window

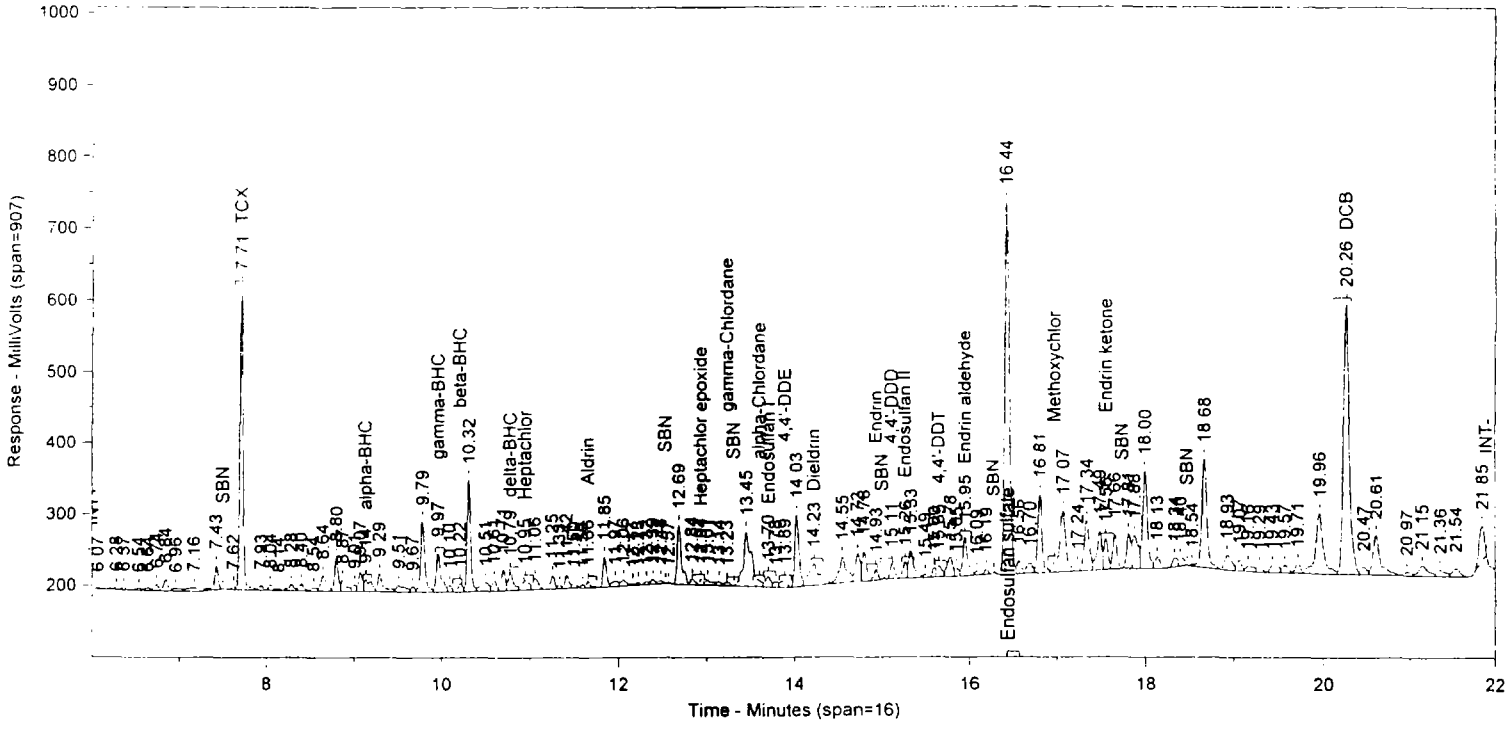
00098

ack 7-19-06

Ret Time (min)	Peak Area	Peak Name	Amount Fnd. ug/L	
11.24	49645		0.000	
11.44	5155		0.000	
11.81	23843	gamma-Chlordane	4.631	
11.96	97487		0.000	
12.19	11148	4,4'-DDE	2.620	- R.T. window
12.28	11695	Endosulfan I	2.328	R.T.
12.42	26525		0.000	
12.64	74750		0.000	
12.81	28733	Dieldrin	5.599	
12.94	16535		0.000	
13.01	7928		0.000	
13.22	21186		0.000	
13.31	26044	Endrin	6.482	
13.38	14187	4,4'-DDD	3.648	R.T.
13.47	12408		0.000	
13.54	14345		0.000	
13.74	5332	Endosulfan II	1.152	
13.80	8230		0.000	
14.00	45215	4,4'-DDT	10.600	
14.08	11452		0.000	
14.27	13825		0.000	
14.33	9640		0.000	
14.48	34142		0.000	
14.60	7012	Endrin aldehyde	1.995	
14.77	345132		0.000	
15.05	23033		0.000	
15.17	72431		0.000	
15.28	28205		0.000	
15.40	7166	Endosulfan sulfate	1.845	
15.50	58991		0.000	
15.61	19426		0.000	
15.68	40765		0.000	
15.89	63788	Endrin ketone	12.830	R.T.
16.20	183842		0.000	
16.31	6534		0.000	
16.39	11256		0.000	
16.46	7592		0.000	
16.61	18448		0.000	
16.71	136926		0.000	
16.91	5192		0.000	
17.24	37354		0.000	
17.41	13472		0.000	
17.56	39819		0.000	
17.87	315937	DCB	78.996	
18.04	32796		0.000	
18.11	27693		0.000	
18.32	74144		0.000	
18.69	28353		0.000	
18.87	11284		0.000	

00099

E:\data\HP90D1\0000078R.0082.RAW * 0060408-18 E0029
E:\data\HP90D1\0000078R.0082.RAW 0060408-18 E0029



Sample Name = 0060408-18 E0029
Date Taken (start) = 4/21/06 19:51:00
Raw File Name = E:\data\HP90D1\0000078R.0082.RAW
Method File Name = E:\MET\D4.2DUALCOL2.MET
Calibration File Name = E:\CAL\DSOM0501B.cal

Instrument : HP90D2
Column: RTXCLP2 id: 0.53mm
Volume Inj. 0.1uL
Analyst: JG

ACH 7-19-06

Ret. Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L
6.07	8624		0.000
6.28	8828		0.000
6.37	12833		0.000
6.54	15261		0.000
6.64	15137		0.000
6.74	30938		0.000
6.84	56649		0.000
6.96	26784		0.000
7.16	42595		0.000
7.43	111093		0.000
7.62	13057		0.000
7.71	1131952	TCX	35.584
7.93	20108		0.000
8.04	25171		0.000
8.14	6946		0.000
8.28	38935		0.000
8.40	34468		0.000
8.54	22344		0.000
8.64	101645		0.000
8.80	147862		0.000
8.87	62594		0.000
9.01	28804		0.000
9.07	85525		0.000
9.14	93700	alpha-BHC	2.197
9.29	105415		0.000
9.51	66302		0.000
9.67	24076		0.000
9.79	327336		0.000

R.T. window

00100

Ret Time (min.)	Peak Area	Peak Name	Amount Fnd. ug/L	
9.97	219494	gamma-BHC	5.577	R.T. window
10.10	29981		0.000	
10.22	40943	beta-BHC	2.156	
10.32	454247		0.000	
10.51	81272		0.000	
10.61	51297		0.000	
10.71	98619		0.000	
10.79	104088	delta-BHC	2.857	R.T.
10.95	71485	Heptachlor	1.847	R.T.
11.06	69348		0.000	
11.25	73756		0.000	
11.33	13727		0.000	
11.42	63083		0.000	
11.50	20668		0.000	
11.59	12601		0.000	
11.66	31190	Aldrin	0.909	R.T.
11.85	124050		0.000	
11.97	37452		0.000	
12.06	40674		0.000	
12.17	6038		0.000	
12.23	8053		0.000	
12.32	14338		0.000	
12.39	20396		0.000	
12.48	16084		0.000	
12.57	5506		0.000	
12.69	296535		0.000	
12.84	30095		0.000	
12.94	23751	Heptachlor epoxide	0.752	
13.01	37076		0.000	
13.14	22445		0.000	
13.23	23677	gamma-Chlordane	0.739	R.T.
13.45	501669		0.000	
13.70	64764	Endosulfan I	2.156	R.T.
13.78	28706		0.000	
13.89	52757	4,4'-DDE	2.046	R.T.
14.03	356682		0.000	
14.23	265689	Dieldrin	9.396	R.T.
14.55	224748		0.000	
14.72	143124		0.000	
14.78	152676		0.000	
14.93	49787	Endrin	2.295	
15.11	73179	4,4'-DDD	3.140	
15.26	78681	Endosulfan II	3.336	R.T.
15.33	163342		0.000	
15.49	15788		0.000	
15.60	33760		0.000	
15.65	67974	4,4'-DDT	2.966	R.T.
15.78	126194		0.000	
15.85	34103		0.000	
15.95	228283	Endrin aldehyde	13.345	R.T.
16.09	16572		0.000	
16.19	20333		0.000	
16.44	1733205	Endosulfan sulfate	88.823	R.T.
16.56	71795		0.000	
16.70	61322		0.000	
16.81	405145		0.000	
17.07	442153		0.000	
17.24	26174		0.000	
17.34	282186		0.000	
17.49	215007		0.000	
17.56	135825	Endrin ketone	6.301	R.T.
17.66	169228		0.000	
17.81	169311		0.000	
17.88	218278		0.000	
18.00	512721		0.000	
18.13	69682		0.000	
18.34	51280		0.000	
18.40	49335		0.000	

ACH 7-19-06

00101

Ret Time (min.)	Peak Area	Peak Name	Amount Fnd ug/L
18 54	7174		0.000
18 68	599804		0.000
18 93	116644		0.000
19.07	54613		0.000
19.16	45273		0.000
19 29	31613		0.000
19 43	58471		0.000
19 57	49435		0.000
19 71	49747		0.000
19.96	531800		0.000
20 26	1735572	DCB	96.392
20 47	47055		0.000
20.61	345299		0.000
20.97	32948		0.000
21.15	103782		0.000
21.36	62523		0.000
21.54	71636		0.000
21.85	206414		0.000

00102

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E0002 CERCLIS No: ILD980794929

Case No: 35229 Site Name/Location: Dunavan Oil (IL)

Contractor or EPA Lab: Envirosystems Data User: IEPA

No. of Samples: 20 Date Sampled or Date Received: 6-16-06

Have Chain-of-Custody records been received? Yes ✓ No_____
Have traffic reports or packing lists been received? Yes ✓ No _____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No____
No of samples claimed: _____ No. of samples received: _____

Received by: Jamal Burden Date: 6-16-06

Received by LSSS: Jamal Burden Date: 6-16-06

Review started: July 10, 2006 Reviewer Signature: Allison C Harvey

Total time spent on review: 37.5 hrs Date review completed: July 19, 2006

Copied by: Adam Johnson Date: 3 Aug 06

Mailed to user by: Adam Johnson Date: 3 Aug 06

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

Inorganic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: _____