SEVERN
TRENT
SERVICES

STL Los Angeles
1721 South Grand Avenue
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Tel: 714 258 8610
Fax: 714 258 0921
www.stl-inc.com

April 17, 2001

STL LOT NUMBER: E1D020174
PO/CONTRACT: 05160-SEV002

Bob Logan
Kennedy/Jenks Consultants
2151 Michelson Drive
Suite 100
Irvine, CA 92612

Dear Mr. Logan,

This report contains the additional analytical results for three samples requested on April 2, 2001. These samples are associated with your BRC former C6 Torrance Harbor Gateway project.

All applicable quality control procedures meet method-specified acceptance criteria. See Project Receipt Checklist for container temperature and conditions. Temperature reading beyond 2 to 6 degrees Celsius is considered not within acceptable criteria unless otherwise noted such as limited transit time from field and test requested. Any matrix related anomaly is footnoted within the report.

STL Los Angeles certifies that the test results provided in this report meet all the requirements of NELAC certification number 01118CA. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at 714-258-8610.

Sincerely,

Diane Suzuki
Project Manager

cc: Project File

This report contains 000050 pages.

SEVERN TRENT SERVICES

CHANGE ORDER

Lab Analysis No.	EID020174
Client Name	Kennedy Jenks
Contact	Beth Breitenbach / H+A

- [ ] CANCEL Work
- [x] ADD Work
- [ ] Chain of Custody Discrepancy
- [ ] TAT Change
- [ ] Matrix
- [ ] Sample Problem
- [ ] Tests Not Defined
- [ ] Other

EIC 260157

EXPLANATION/RESOLUTION	
~~BOC~~ Build-20-M-23-032101-1	8270
Build-20-L-23-032101-2	8310
Build-20-M-23-032201-7	8082
Build-20-M-23-032201-7	Cr6

Initiated By: _____

Date/Time: 2/12/01

Received By: _____

Date/Time: _____

000002

Distribution:
Original - Sample Control/Job Folder; Yellow - Lab; Pink - Initiator

ENS—3008

000004

BOE-C6-0127051

EXECUTIVE SUMMARY - Detection Highlights

E1D020174

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
BUILD_20_M_23_032101_1 03/21/01 08:00 001				
Aroclor 1242	16 J	33	ug/kg	SW846 8082
Benzo(b)fluoranthene	610	400	ug/kg	SW846 8310
Pyrene	1700 J	4000	ug/kg	SW846 8310
Benzo(a)anthracene	150 J	330	ug/kg	SW846 8270C
Benzo(a)pyrene	110 J	330	ug/kg	SW846 8270C
Chrysene	190 J	330	ug/kg	SW846 8270C
Fluoranthene	80 J	330	ug/kg	SW846 8270C
Fluorene	120 J	330	ug/kg	SW846 8270C
2-Methylnaphthalene	190 J	330	ug/kg	SW846 8270C
Phenanthrene	630	330	ug/kg	SW846 8270C
Pyrene	500	330	ug/kg	SW846 8270C
BUILD_20_L_23_032101_2 03/21/01 09:30 002				
Aroclor 1242	32 J	33	ug/kg	SW846 8082
Benzo(b)fluoranthene	78	40	ug/kg	SW846 8310
Benzo(k)fluoranthene	30 J	40	ug/kg	SW846 8310
Fluoranthene	200	200	ug/kg	SW846 8310
Phenanthrene	230	160	ug/kg	SW846 8310
Pyrene	170 J	400	ug/kg	SW846 8310
Anthracene	20000	16000	ug/kg	SW846 8270C
Benzo(a)anthracene	14000 J	16000	ug/kg	SW846 8270C
Benzo(b)fluoranthene	6600 J	16000	ug/kg	SW846 8270C
Benzo(a)pyrene	4300 J	16000	ug/kg	SW846 8270C
Chrysene	15000 J	16000	ug/kg	SW846 8270C
Fluoranthene	29000	16000	ug/kg	SW846 8270C
Fluorene	20000	16000	ug/kg	SW846 8270C
2-Methylnaphthalene	54000	16000	ug/kg	SW846 8270C
Phenanthrene	120000	16000	ug/kg	SW846 8270C
Pyrene	41000	16000	ug/kg	SW846 8270C
BUILD_20_M_23_032201_7 03/22/01 10:00 003				
Aroclor 1242	90	33	ug/kg	SW846 8082
Aroclor 1254	14 J	33	ug/kg	SW846 8082
Anthracene	3200	800	ug/kg	SW846 8310
Benzo(b)fluoranthene	1000	400	ug/kg	SW846 8310
Benzo(k)fluoranthene	600	400	ug/kg	SW846 8310
Phenanthrene	18000	1600	ug/kg	SW846 8310

METHODS SUMMARY

E1D020174

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Hexavalent Chromium	SW846 7196A	SW846 7196A/DI
Polynuclear Aromatic Hydrocarbons by HPLC	SW846 8310	SW846 3550
PCBs by SW-846 8082	SW846 8082	SW846 3550
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3550B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

E1D020174

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EAAJ9	001	BUILD_20_M_23_032101_1	03/21/01	08:00
EAAKF	002	BUILD_20_L_23_032101_2	03/21/01	09:30
EAAKH	003	BUILD_20_M_23_032201_7	03/22/01	10:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_20_M_23_032101_1

GC Semivolatiles

Lot-Sample #...: E1D020174-001 **Work Order #...:** EAAJ91AC **Matrix.....:** SOLID
Date Sampled...: 03/21/01 08:00 **Date Received..:** 03/26/01 14:20 **MS Run #.....:** 1093209
Prep Date.....: 04/03/01 **Analysis Date..:** 04/04/01
Prep Batch #...: 1093382 **Analysis Time..:** 12:55
Dilution Factor: 1
Analyst ID.....: 018568 **Instrument ID..:** G8B
Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	33	ug/kg	10
Aroclor 1221	ND	33	ug/kg	10
Aroclor 1232	ND	33	ug/kg	10
Aroclor 1242	**16 J**	**33**	**ug/kg**	**10**
Aroclor 1248	ND	33	ug/kg	10
Aroclor 1254	ND	33	ug/kg	10
Aroclor 1260	ND	33	ug/kg	10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	78	(60 - 140)
Tetrachloro-m-xylene	70	(60 - 140)

NOTE(S):

J Estimated result. Result is less than RL.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_20_M_23_032101_1

GC/MS Semivolatiles

Lot-Sample #...: E1D020174-001 **Work Order #...:** EAAJ91AA **Matrix.....:** SOLID
Date Sampled...: 03/21/01 08:00 **Date Received..:** 03/26/01 14:20 **MS Run #.....:** 1093221
Prep Date.....: 04/03/01 **Analysis Date..:** 04/10/01
Prep Batch #...: 1093385 **Analysis Time..:** 12:17
Dilution Factor: 1
Analyst ID.....: 010060 **Instrument ID..:** MSE
Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	330	ug/kg	100
Aniline	ND	660	ug/kg	100
Acenaphthylene	ND	330	ug/kg	100
Benzidine	ND	660	ug/kg	100
Anthracene	ND	330	ug/kg	80
Benzo(a)anthracene	**150 J**	**330**	**ug/kg**	**100**
Benzo(b)fluoranthene	ND	330	ug/kg	100
Benzo(k)fluoranthene	ND	330	ug/kg	200
Benzo(ghi)perylene	ND	330	ug/kg	150
Benzo(a)pyrene	**110 J**	**330**	**ug/kg**	**70**
Benzoic acid	ND	1600	ug/kg	500
Benzyl alcohol	ND	330	ug/kg	100
bis(2-Chloroethoxy) methane	ND	330	ug/kg	100
bis(2-Chloroethyl)-ether	ND	330	ug/kg	100
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	110
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	200
4-Bromophenyl phenyl ether	ND	330	ug/kg	80
Butyl benzyl phthalate	ND	330	ug/kg	100
Carbazole	ND	330	ug/kg	80
4-Chloroaniline	ND	330	ug/kg	150
4-Chloro-3-methylphenol	ND	330	ug/kg	100
2-Chloronaphthalene	ND	330	ug/kg	100
2-Chlorophenol	ND	330	ug/kg	150
4-Chlorophenyl phenyl ether	ND	330	ug/kg	90
Chrysene	**190 J**	**330**	**ug/kg**	**100**
Dibenz(a,h)anthracene	ND	330	ug/kg	100
Dibenzofuran	ND	330	ug/kg	90
Di-n-butyl phthalate	ND	330	ug/kg	100
1,2-Dichlorobenzene	ND	330	ug/kg	130
1,3-Dichlorobenzene	ND	330	ug/kg	130
1,4-Dichlorobenzene	ND	330	ug/kg	130

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KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_20_M_23_032101_1

GC/MS Semivolatiles

Lot-Sample #...: E1D020174-001 **Work Order #...:** EAAJ91AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
3,3'-Dichlorobenzidine	ND	1600	ug/kg	400
2,4-Dichlorophenol	ND	330	ug/kg	90
Diethyl phthalate	ND	330	ug/kg	100
2,4-Dimethylphenol	ND	330	ug/kg	100
Dimethyl phthalate	ND	330	ug/kg	80
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	250
2,4-Dinitrophenol	ND	1600	ug/kg	500
2,4-Dinitrotoluene	ND	330	ug/kg	100
2,6-Dinitrotoluene	ND	330	ug/kg	90
Di-n-octyl phthalate	ND	330	ug/kg	110
Fluoranthene	**80 J**	**330**	**ug/kg**	**70**
Fluorene	**120 J**	**330**	**ug/kg**	**90**
Hexachlorobenzene	ND	330	ug/kg	80
Hexachlorobutadiene	ND	330	ug/kg	100
Hexachlorocyclopentadiene	ND	1600	ug/kg	320
Hexachloroethane	ND	330	ug/kg	120
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	100
Isophorone	ND	330	ug/kg	100
2-Methylnaphthalene	**190 J**	**330**	**ug/kg**	**90**
2-Methylphenol	ND	330	ug/kg	80
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg	100
Naphthalene	ND	330	ug/kg	90
2-Nitroaniline	ND	1600	ug/kg	300
3-Nitroaniline	ND	1600	ug/kg	350
4-Nitroaniline	ND	1600	ug/kg	200
Nitrobenzene	ND	330	ug/kg	150
2-Nitrophenol	ND	330	ug/kg	100
4-Nitrophenol	ND	1600	ug/kg	300
N-Nitrosodiphenylamine	ND	330	ug/kg	80
N-Nitrosodi-n-propylamine	ND	330	ug/kg	90
Pentachlorophenol	ND	1600	ug/kg	250
Phenanthrene	**630**	**330**	**ug/kg**	**80**
Phenol	ND	330	ug/kg	100
Pyrene	**500**	**330**	**ug/kg**	**120**
1,2,4-Trichlorobenzene	ND	330	ug/kg	100
2,4,5-Trichlorophenol	ND	330	ug/kg	100
2,4,6-Trichlorophenol	ND	330	ug/kg	70

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KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_20_M_23_032101_1

GC/MS Semivolatiles

Lot-Sample #...: E1D020174-001 **Work Order #...:** EAAJ91AA **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	58	(40 - 130)
2-Fluorophenol	49 *	(50 - 115)
2,4,6-Tribromophenol	53	(30 - 115)
Nitrobenzene-d5	51	(45 - 115)
Phenol-d5	60	(50 - 120)
Terphenyl-d14	63	(50 - 140)

NOTE(S):

The surrogate recovery in the sample is outside control limits due to confirmed matrix effect.

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_20_M_23_032101_1

HPLC

Lot-Sample #...: E1D020174-001 **Work Order #...:** EAAJ91AD **Matrix.....:** SOLID
Date Sampled...: 03/21/01 08:00 **Date Received..:** 03/26/01 14:20 **MS Run #.....:** 1094202
Prep Date.....: 04/04/01 **Analysis Date..:** 04/11/01
Prep Batch #...: 1094371 **Analysis Time..:** 00:29
Dilution Factor: 100
Analyst ID.....: 057134 **Instrument ID..:** LC7
Method.....: SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	40000	ug/kg	6300
Acenaphthylene	ND	20000	ug/kg	4600
Anthracene	ND	800	ug/kg	110
Benzo(a)anthracene	ND	1600	ug/kg	170
Benzo(a)pyrene	ND	1000	ug/kg	310
Benzo(b)fluoranthene	**610**	**400**	**ug/kg**	**240**
Benzo(ghi)perylene	ND	1600	ug/kg	310
Benzo(k)fluoranthene	ND	400	ug/kg	110
Chrysene	ND	2000	ug/kg	1400
Dibenz(a,h)anthracene	ND	4000	ug/kg	920
Fluoranthene	ND	2000	ug/kg	480
Fluorene	ND	4000	ug/kg	670
Indeno(1,2,3-cd)pyrene	ND	2000	ug/kg	310
Naphthalene	ND	20000	ug/kg	2300
Phenanthrene	ND Q	3500	ug/kg	260
Pyrene	**1700 J**	**4000**	**ug/kg**	**1100**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Methylnaphthalene	0.0 SRD	(41 - 115)

NOTE(S):

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

J Estimated result. Result is less than RL.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_20_L_23_032101_2

GC Semivolatiles

Lot-Sample #...: E1D020174-002 **Work Order #...:** EAAKF1AC **Matrix.....:** SOLID
Date Sampled...: 03/21/01 09:30 **Date Received..:** 03/26/01 14:20 **MS Run #.....:** 1093209
Prep Date.....: 04/03/01 **Analysis Date..:** 04/04/01
Prep Batch #...: 1093382 **Analysis Time..:** 14:54
Dilution Factor: 1
Analyst ID.....: 018568 **Instrument ID..:** G8B
Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	33	ug/kg	10
Aroclor 1221	ND	33	ug/kg	10
Aroclor 1232	ND	33	ug/kg	10
Aroclor 1242	**32 J**	**33**	**ug/kg**	**10**
Aroclor 1248	ND	33	ug/kg	10
Aroclor 1254	ND	33	ug/kg	10
Aroclor 1260	ND	33	ug/kg	10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	62	(60 - 140)
Tetrachloro-m-xylene	69	(60 - 140)

NOTE(S):

J Estimated result. Result is less than RL.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_20_L_23_032101_2

GC/MS Semivolatiles

Lot-Sample #...: E1D020174-002 **Work Order #...:** EAAKF1AA **Matrix.....:** SOLID
Date Sampled...: 03/21/01 09:30 **Date Received..:** 03/26/01 14:20 **MS Run #.....:** 1093221
Prep Date.....: 04/03/01 **Analysis Date..:** 04/09/01
Prep Batch #...: 1093385 **Analysis Time..:** 19:14
Dilution Factor: 50
Analyst ID.....: 010060 **Instrument ID..:** MSE
Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	16000	ug/kg	5000
Aniline	ND	33000	ug/kg	5000
Acenaphthylene	ND	16000	ug/kg	5000
Benzidine	ND	33000	ug/kg	5000
Anthracene	**20000**	**16000**	**ug/kg**	**4000**
Benzo(a)anthracene	**14000 J**	**16000**	**ug/kg**	**5000**
Benzo(b)fluoranthene	**6600 J**	**16000**	**ug/kg**	**5000**
Benzo(k)fluoranthene	ND	16000	ug/kg	10000
Benzo(ghi)perylene	ND	16000	ug/kg	7500
Benzo(a)pyrene	**4300 J**	**16000**	**ug/kg**	**3500**
Benzoic acid	ND	80000	ug/kg	25000
Benzyl alcohol	ND	16000	ug/kg	5000
bis(2-Chloroethoxy) methane	ND	16000	ug/kg	5000
bis(2-Chloroethyl)-ether	ND	16000	ug/kg	5000
bis(2-Chloroisopropyl) ether	ND	16000	ug/kg	5500
bis(2-Ethylhexyl) phthalate	ND	16000	ug/kg	10000
4-Bromophenyl phenyl ether	ND	16000	ug/kg	4000
Butyl benzyl phthalate	ND	16000	ug/kg	5000
Carbazole	ND	16000	ug/kg	4000
4-Chloroaniline	ND	16000	ug/kg	7500
4-Chloro-3-methylphenol	ND	16000	ug/kg	5000
2-Chloronaphthalene	ND	16000	ug/kg	5000
2-Chlorophenol	ND	16000	ug/kg	7500
4-Chlorophenyl phenyl ether	ND	16000	ug/kg	4500
Chrysene	**15000 J**	**16000**	**ug/kg**	**5000**
Dibenz(a,h)anthracene	ND	16000	ug/kg	5000
Dibenzofuran	ND	16000	ug/kg	4500
Di-n-butyl phthalate	ND	16000	ug/kg	5000
1,2-Dichlorobenzene	ND	16000	ug/kg	6500
1,3-Dichlorobenzene	ND	16000	ug/kg	6500
1,4-Dichlorobenzene	ND	16000	ug/kg	6500

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KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_20_L_23_032101_2

GC/MS Semivolatiles

Lot-Sample #...: E1D020174-002 **Work Order #...:** EAAKF1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
3,3'-Dichlorobenzidine	ND	80000	ug/kg	20000
2,4-Dichlorophenol	ND	16000	ug/kg	4500
Diethyl phthalate	ND	16000	ug/kg	5000
2,4-Dimethylphenol	ND	16000	ug/kg	5000
Dimethyl phthalate	ND	16000	ug/kg	4000
4,6-Dinitro-2-methylphenol	ND	80000	ug/kg	12000
2,4-Dinitrophenol	ND	80000	ug/kg	25000
2,4-Dinitrotoluene	ND	16000	ug/kg	5000
2,6-Dinitrotoluene	ND	16000	ug/kg	4500
Di-n-octyl phthalate	ND	16000	ug/kg	5500
Fluoranthene	**29000**	**16000**	**ug/kg**	**3500**
Fluorene	**20000**	**16000**	**ug/kg**	**4500**
Hexachlorobenzene	ND	16000	ug/kg	4000
Hexachlorobutadiene	ND	16000	ug/kg	5000
Hexachlorocyclopentadiene	ND	80000	ug/kg	16000
Hexachloroethane	ND	16000	ug/kg	6000
Indeno(1,2,3-cd)pyrene	ND	16000	ug/kg	5000
Isophorone	ND	16000	ug/kg	5000
2-Methylnaphthalene	**54000**	**16000**	**ug/kg**	**4500**
2-Methylphenol	ND	16000	ug/kg	4000
3-Methylphenol & 4-Methylphenol	ND	16000	ug/kg	5000
Naphthalene	ND	16000	ug/kg	4500
2-Nitroaniline	ND	80000	ug/kg	15000
3-Nitroaniline	ND	80000	ug/kg	18000
4-Nitroaniline	ND	80000	ug/kg	10000
Nitrobenzene	ND	16000	ug/kg	7500
2-Nitrophenol	ND	16000	ug/kg	5000
4-Nitrophenol	ND	80000	ug/kg	15000
N-Nitrosodiphenylamine	ND	16000	ug/kg	4000
N-Nitrosodi-n-propylamine	ND	16000	ug/kg	4500
Pentachlorophenol	ND	80000	ug/kg	12000
Phenanthrene	**120000**	**16000**	**ug/kg**	**4000**
Phenol	ND	16000	ug/kg	5000
Pyrene	**41000**	**16000**	**ug/kg**	**6000**
1,2,4-Trichlorobenzene	ND	16000	ug/kg	5000
2,4,5-Trichlorophenol	ND	16000	ug/kg	5000
2,4,6-Trichlorophenol	ND	16000	ug/kg	3500

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KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_20_L_23_032101_2

GC/MS Semivolatiles

Lot-Sample #...: E1D020174-002 **Work Order #...:** EAAKF1AA **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	0.0 NC	(40 - 130)
2-Fluorophenol	0.0 NC	(50 - 115)
2,4,6-Tribromophenol	0.0 NC	(30 - 115)
Nitrobenzene-d5	0.0 NC	(45 - 115)
Phenol-d5	0.0 NC	(50 - 120)
Terphenyl-d14	0.0 NC	(50 - 140)

NOTE(S):

NC The recovery and/or RPD were not calculated.

J Estimated result. Result is less than RL.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_20_L_23_032101_2

HPLC

Lot-Sample #...: E1D020174-002 **Work Order #...:** EAAKF1AD **Matrix.....:** SOLID
Date Sampled...: 03/21/01 09:30 **Date Received..:** 03/26/01 14:20 **MS Run #.....:** 1094202
Prep Date.....: 04/04/01 **Analysis Date..:** 04/11/01
Prep Batch #...: 1094371 **Analysis Time..:** 03:11
Dilution Factor: 10
Analyst ID.....: 057134 **Instrument ID..:** LC7
Method.....: SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	4000	ug/kg	630
Acenaphthylene	ND	2000	ug/kg	460
Anthracene	ND	80	ug/kg	11
Benzo(a)anthracene	ND	160	ug/kg	17
Benzo(a)pyrene	ND	100	ug/kg	31
Benzo(b)fluoranthene	**78**	**40**	**ug/kg**	**24**
Benzo(ghi)perylene	ND	160	ug/kg	31
Benzo(k)fluoranthene	**30 J**	**40**	**ug/kg**	**11**
Chrysene	ND	200	ug/kg	140
Dibenz(a,h)anthracene	ND	400	ug/kg	92
Fluoranthene	**200**	**200**	**ug/kg**	**48**
Fluorene	ND	400	ug/kg	67
Indeno(1,2,3-cd)pyrene	ND	200	ug/kg	31
Naphthalene	ND	2000	ug/kg	230
Phenanthrene	**230**	**160**	**ug/kg**	**26**
Pyrene	**170 J**	**400**	**ug/kg**	**110**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Methylnaphthalene	0.0 SRD	(41 - 115)

NOTE(S):

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

J Estimated result. Result is less than RL.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_20_M_23_032201_7

GC Semivolatiles

Lot-Sample #...: E1D020174-003 **Work Order #...:** EAAKH1AC **Matrix.....:** SOLID
Date Sampled...: 03/22/01 10:00 **Date Received..:** 03/26/01 14:20 **MS Run #.....:** 1093209
Prep Date.....: 04/03/01 **Analysis Date..:** 04/04/01
Prep Batch #...: 1093382 **Analysis Time..:** 15:34
Dilution Factor: 1
Analyst ID.....: 018568 **Instrument ID..:** G8B
Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	33	ug/kg	10
Aroclor 1221	ND	33	ug/kg	10
Aroclor 1232	ND	33	ug/kg	10
Aroclor 1242	**90**	**33**	**ug/kg**	**10**
Aroclor 1248	ND	33	ug/kg	10
Aroclor 1254	**14 J**	**33**	**ug/kg**	**10**
Aroclor 1260	ND	33	ug/kg	10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	83	(60 - 140)
Tetrachloro-m-xylene	70	(60 - 140)

NOTE(S):

J Estimated result. Result is less than RL.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_20_M_23_032201_7

GC/MS Semivolatiles

Lot-Sample #...: E1D020174-003 **Work Order #...:** EAAKH1AA **Matrix.....:** SOLID
Date Sampled...: 03/22/01 10:00 **Date Received..:** 03/26/01 14:20 **MS Run #.....:** 1093221
Prep Date.....: 04/03/01 **Analysis Date..:** 04/10/01
Prep Batch #...: 1093385 **Analysis Time..:** 11:47
Dilution Factor: 1
Analyst ID.....: 010060 **Instrument ID..:** MSE
Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	330	ug/kg	100
Aniline	ND	660	ug/kg	100
Acenaphthylene	ND	330	ug/kg	100
Benzidine	ND	660	ug/kg	100
Anthracene	ND	330	ug/kg	80
Benzo(a)anthracene	ND	330	ug/kg	100
Benzo(b)fluoranthene	ND	330	ug/kg	100
Benzo(k)fluoranthene	ND	330	ug/kg	200
Benzo(ghi)perylene	ND	330	ug/kg	150
Benzo(a)pyrene	ND	330	ug/kg	70
Benzoic acid	ND	1600	ug/kg	500
Benzyl alcohol	ND	330	ug/kg	100
bis(2-Chloroethoxy) methane	ND	330	ug/kg	100
bis(2-Chloroethyl)-ether	ND	330	ug/kg	100
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	110
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	200
4-Bromophenyl phenyl ether	ND	330	ug/kg	80
Butyl benzyl phthalate	ND	330	ug/kg	100
Carbazole	ND	330	ug/kg	80
4-Chloroaniline	ND	330	ug/kg	150
4-Chloro-3-methylphenol	ND	330	ug/kg	100
2-Chloronaphthalene	ND	330	ug/kg	100
2-Chlorophenol	ND	330	ug/kg	150
4-Chlorophenyl phenyl ether	ND	330	ug/kg	90
Chrysene	ND	330	ug/kg	100
Dibenz(a,h)anthracene	ND	330	ug/kg	100
Dibenzofuran	ND	330	ug/kg	90
Di-n-butyl phthalate	ND	330	ug/kg	100
1,2-Dichlorobenzene	ND	330	ug/kg	130
1,3-Dichlorobenzene	ND	330	ug/kg	130
1,4-Dichlorobenzene	ND	330	ug/kg	130

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KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_20_M_23_032201_7

GC/MS Semivolatiles

Lot-Sample #...: E1D020174-003 **Work Order #...:** EAAKH1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
3,3'-Dichlorobenzidine	ND	1600	ug/kg	400
2,4-Dichlorophenol	ND	330	ug/kg	90
Diethyl phthalate	ND	330	ug/kg	100
2,4-Dimethylphenol	ND	330	ug/kg	100
Dimethyl phthalate	ND	330	ug/kg	80
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	250
2,4-Dinitrophenol	ND	1600	ug/kg	500
2,4-Dinitrotoluene	ND	330	ug/kg	100
2,6-Dinitrotoluene	ND	330	ug/kg	90
Di-n-octyl phthalate	ND	330	ug/kg	110
Fluoranthene	ND	330	ug/kg	70
Fluorene	ND	330	ug/kg	90
Hexachlorobenzene	ND	330	ug/kg	80
Hexachlorobutadiene	ND	330	ug/kg	100
Hexachlorocyclopentadiene	ND	1600	ug/kg	320
Hexachloroethane	ND	330	ug/kg	120
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	100
Isophorone	ND	330	ug/kg	100
2-Methylnaphthalene	ND	330	ug/kg	90
2-Methylphenol	ND	330	ug/kg	80
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg	100
Naphthalene	ND	330	ug/kg	90
2-Nitroaniline	ND	1600	ug/kg	300
3-Nitroaniline	ND	1600	ug/kg	350
4-Nitroaniline	ND	1600	ug/kg	200
Nitrobenzene	ND	330	ug/kg	150
2-Nitrophenol	ND	330	ug/kg	100
4-Nitrophenol	ND	1600	ug/kg	300
N-Nitrosodiphenylamine	ND	330	ug/kg	80
N-Nitrosodi-n-propylamine	ND	330	ug/kg	90
Pentachlorophenol	ND	1600	ug/kg	250
Phenanthrene	ND	330	ug/kg	80
Phenol	ND	330	ug/kg	100
Pyrene	ND	330	ug/kg	120
1,2,4-Trichlorobenzene	ND	330	ug/kg	100
2,4,5-Trichlorophenol	ND	330	ug/kg	100
2,4,6-Trichlorophenol	ND	330	ug/kg	70

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KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_20_M_23_032201_7

GC/MS Semivolatiles

Lot-Sample #...: E1D020174-003 **Work Order #...:** EAAKH1AA **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	63	(40 - 130)
2-Fluorophenol	63	(50 - 115)
2,4,6-Tribromophenol	60	(30 - 115)
Nitrobenzene-d5	56	(45 - 115)
Phenol-d5	76	(50 - 120)
Terphenyl-d14	78	(50 - 140)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_20_M_23_032201_7

HPLC

Lot-Sample #...: E1D020174-003 **Work Order #...:** EAAKH1AD **Matrix.....:** SOLID
Date Sampled...: 03/22/01 10:00 **Date Received..:** 03/26/01 14:20 **MS Run #.....:** 1094202
Prep Date.....: 04/04/01 **Analysis Date..:** 04/11/01
Prep Batch #...: 1094371 **Analysis Time..:** 04:32
Dilution Factor: 100
Analyst ID.....: 057134 **Instrument ID..:** LC7
Method.....: SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	40000	ug/kg	6300
Acenaphthylene	ND	20000	ug/kg	4600
Anthracene	**3200**	**800**	**ug/kg**	**110**
Benzo(a)anthracene	ND	1600	ug/kg	170
Benzo(a)pyrene	ND	1000	ug/kg	310
Benzo(b)fluoranthene	**1000**	**400**	**ug/kg**	**240**
Benzo(ghi)perylene	ND	1600	ug/kg	310
Benzo(k)fluoranthene	**600**	**400**	**ug/kg**	**110**
Chrysene	ND	2000	ug/kg	1400
Dibenz(a,h)anthracene	ND	4000	ug/kg	920
Fluoranthene	ND	2000	ug/kg	480
Fluorene	ND	4000	ug/kg	670
Indeno(1,2,3-cd)pyrene	ND	2000	ug/kg	310
Naphthalene	ND	20000	ug/kg	2300
Phenanthrene	**18000**	**1600**	**ug/kg**	**260**
Pyrene	ND	4000	ug/kg	1100

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Methylnaphthalene	0.0 SRD	(41 - 115)

NOTE(S):

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

KENNEDY/JENKS CONSULTANTS

BUILD_20_M_23_032101_1

GC/MS Semivolatiles

Lot-Sample #: E1D020174-001 **Work Order #:** EAAJ91AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Pyridine		ND	M		ug/kg
2-Naphthylamine		ND	M		ug/kg
Pentachloroethane		ND	M		ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

KENNEDY/JENKS CONSULTANTS

BUILD_20_L_23_032101_2

GC/MS Semivolatiles

Lot-Sample #: E1D020174-002 **Work Order #:** EAAKF1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Pyridine		ND	M		ug/kg
2-Naphthylamine		ND	M		ug/kg
Pentachloroethane		ND	M		ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

KENNEDY/JENKS CONSULTANTS

BUILD_20_M_23_032201_7

GC/MS Semivolatiles

Lot-Sample #: E1D020174-003 **Work Order #:** EAAKH1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Pyridine		ND	M		ug/kg
2-Naphthylamine		ND	M		ug/kg
Pentachloroethane		ND	M		ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

KENNEDY/JENKS CONSULTANTS

Method Blank Report

GC/MS Semivolatiles

Lot-Sample #: E1D030000-385 B **Work Order #:** EAC2M1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Pyridine		ND	M		ug/kg
2-Naphthylamine		ND	M		ug/kg
Pentachloroethane		ND	M		ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_20_M_23_032201_7

General Chemistry

Lot-Sample #...: E1D020174-003 **Work Order #...:** EAAKH **Matrix.....:** SOLID
Date Sampled...: 03/22/01 10:00 **Date Received..:** 03/26/01 14:20

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	ND	0.10	mg/kg	SW846 7196A	04/04/01	1094311

Dilution Factor: 1 Analysis Time..: 10:10 Analyst ID.....: 000022
Instrument ID..: W06 MS Run #.....: 1095273 MDL.....: 0.050

QC DATA ASSOCIATION SUMMARY

E1D020174

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 8082		1093382	1093209
	SOLID	SW846 8270C		1093385	1093221
	SOLID	SW846 8310		1094371	1094202
002	SOLID	SW846 8082		1093382	1093209
	SOLID	SW846 8270C		1093385	1093221
	SOLID	SW846 8310		1094371	1094202
003	SOLID	SW846 7196A		1094311	1095273
	SOLID	SW846 8082		1093382	1093209
	SOLID	SW846 8270C		1093385	1093221
	SOLID	SW846 8310		1094371	1094202

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E1D020174
MB Lot-Sample #: E1D030000-382

Work Order #...: EAC111AA

Matrix.....: SOLID

Prep Date.....: 04/03/01

Analysis Time..: 09:36

Analysis Date..: 04/04/01

Prep Batch #...: 1093382

Instrument ID..: G8B

Dilution Factor: 1

Analyst ID.....: 018568

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	114	(60 - 140)
Tetrachloro-m-xylene	103	(60 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: E1D020174 **Work Order #...:** EAC2M1AA **Matrix.....:** SOLID
MB Lot-Sample #: E1D030000-385

Prep Date.....: 04/03/01 **Analysis Time..:** 09:13
Analysis Date..: 04/10/01 **Prep Batch #...:** 1093385 **Instrument ID..:** MSE
Dilution Factor: 1

Analyst ID.....: 010060

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	330	ug/kg	SW846 8270C
Aniline	ND	660	ug/kg	SW846 8270C
Acenaphthylene	ND	330	ug/kg	SW846 8270C
Benzidine	ND	660	ug/kg	SW846 8270C
Anthracene	ND	330	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270C
Benzoic acid	ND	1600	ug/kg	SW846 8270C
Benzyl alcohol	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethyl)-ether	ND	330	ug/kg	SW846 8270C
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270C
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270C
Carbazole	ND	330	ug/kg	SW846 8270C
4-Chloroaniline	ND	330	ug/kg	SW846 8270C
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270C
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270C
2-Chlorophenol	ND	330	ug/kg	SW846 8270C
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Chrysene	ND	330	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270C
Dibenzofuran	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270C
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
Diethyl phthalate	ND	330	ug/kg	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: E1D020174 **Work Order #...:** EAC2M1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270C
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270C
Fluoranthene	ND	330	ug/kg	SW846 8270C
Fluorene	ND	330	ug/kg	SW846 8270C
Hexachlorobenzene	ND	330	ug/kg	SW846 8270C
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270C
Hexachlorocyclopentadiene	ND	1600	ug/kg	SW846 8270C
Hexachloroethane	ND	330	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270C
2-Methylphenol	ND	330	ug/kg	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg	SW846 8270C
Naphthalene	ND	330	ug/kg	SW846 8270C
2-Nitroaniline	ND	1600	ug/kg	SW846 8270C
3-Nitroaniline	ND	1600	ug/kg	SW846 8270C
4-Nitroaniline	ND	1600	ug/kg	SW846 8270C
Nitrobenzene	ND	330	ug/kg	SW846 8270C
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
4-Nitrophenol	ND	1600	ug/kg	SW846 8270C
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270C
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW846 8270C
Pentachlorophenol	ND	1600	ug/kg	SW846 8270C
Phenanthrene	ND	330	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
Pyrene	ND	330	ug/kg	SW846 8270C
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW846 8270C
2,4,5-Trichlorophenol	ND	330	ug/kg	SW846 8270C
2,4,6-Trichlorophenol	ND	330	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	70	(40 - 130)

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: E1D020174 **Work Order #...:** EAC2M1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2-Fluorophenol	82	(50 - 115)		
2,4,6-Tribromophenol	72	(30 - 115)		
Nitrobenzene-d5	67	(45 - 115)		
Phenol-d5	85	(50 - 120)		
Terphenyl-d14	81	(50 - 140)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

HPLC

Client Lot #...: E1D020174
MB Lot-Sample #: G1D040000-371

Work Order #...: EAEXJ1AA

Matrix.....: SOLID

Prep Date.....: 04/04/01

Analysis Time..: 14:23

Analysis Date..: 04/10/01

Prep Batch #...: 1094371

Instrument ID..: LC7

Dilution Factor: 1

Analyst ID.....: 057134

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	400	ug/kg	SW846 8310
Acenaphthylene	ND	200	ug/kg	SW846 8310
Anthracene	ND	8.0	ug/kg	SW846 8310
Benzo(a)anthracene	ND	16	ug/kg	SW846 8310
Benzo(a)pyrene	ND	10	ug/kg	SW846 8310
Benzo(b)fluoranthene	ND	4.0	ug/kg	SW846 8310
Benzo(ghi)perylene	ND	16	ug/kg	SW846 8310
Benzo(k)fluoranthene	ND	4.0	ug/kg	SW846 8310
Chrysene	ND	20	ug/kg	SW846 8310
Dibenz(a,h)anthracene	ND	40	ug/kg	SW846 8310
Fluoranthene	ND	20	ug/kg	SW846 8310
Fluorene	ND	40	ug/kg	SW846 8310
Indeno(1,2,3-cd)pyrene	ND	20	ug/kg	SW846 8310
Naphthalene	ND	200	ug/kg	SW846 8310
Phenanthrene	ND	16	ug/kg	SW846 8310
Pyrene	ND	40	ug/kg	SW846 8310

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Methylnaphthalene	75	(41 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: E1D020174 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		Work Order #:	EAG301AA	MB Lot-Sample #:	E1D040000-311	
	ND	0.10	mg/kg	SW846 7196A	04/04/01	1094311

Dilution Factor: 1

Analysis Time..: 11:44 Analyst ID.....: 000022 Instrument ID..: W06

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: E1D020174 **Work Order #...:** EAC111AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1D030000-382
Prep Date.....: 04/03/01 **Analysis Date..:** 04/04/01
Prep Batch #...: 1093382 **Analysis Time..:** 10:16
Dilution Factor: 1 **Instrument ID..:** G8B
Analyst ID.....: 018568

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aroclor 1016	**333**	**376**	**ug/kg**	**113**	**SW846 8082**
Aroclor 1260	**333**	**370**	**ug/kg**	**111**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	108	(60 - 140)
Tetrachloro-m-xylene	84	(60 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: E1D020174 **Work Order #...:** EAC2M1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1D030000-385
Prep Date.....: 04/03/01 **Analysis Date..:** 04/10/01
Prep Batch #...: 1093385 **Analysis Time..:** 11:16
Dilution Factor: 1 **Instrument ID..:** MSE
Analyst ID.....: 010060

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acenaphthene	**3330**	**2480**	**ug/kg**	**74**	**SW846 8270C**
4-Chloro-3-methylphenol	**5000**	**4060**	**ug/kg**	**81**	**SW846 8270C**
2-Chlorophenol	**5000**	**4060**	**ug/kg**	**81**	**SW846 8270C**
1,4-Dichlorobenzene	**3330**	**2280**	**ug/kg**	**69**	**SW846 8270C**
2,4-Dinitrotoluene	**3330**	**2680**	**ug/kg**	**80**	**SW846 8270C**
4-Nitrophenol	**5000**	**2920**	**ug/kg**	**58**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**3330**	**2960**	**ug/kg**	**89**	**SW846 8270C**
Pentachlorophenol	**5000**	**2950**	**ug/kg**	**59**	**SW846 8270C**
Phenol	**5000**	**3740**	**ug/kg**	**75**	**SW846 8270C**
Pyrene	**3330**	**2510**	**ug/kg**	**75**	**SW846 8270C**
1,2,4-Trichloro-benzene	**3330**	**2290**	**ug/kg**	**69**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	73	(40 - 130)
2-Fluorophenol	89	(50 - 115)
2,4,6-Tribromophenol	75	(30 - 115)
Nitrobenzene-d5	70	(45 - 115)
Phenol-d5	83	(50 - 120)
Terphenyl-d14	76	(50 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: E1D020174 **Work Order #...:** EAEXJ1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G1D040000-371
Prep Date.....: 04/04/01 **Analysis Date..:** 04/11/01
Prep Batch #...: 1094371 **Analysis Time..:** 07:14
Dilution Factor: 1 **Instrument ID..:** LC7
Analyst ID.....: 057134

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acenaphthene	1330	1100	ug/kg	83	SW846 8310
Acenaphthylene	667	522	ug/kg	78	SW846 8310
Anthracene	26.6	19.6	ug/kg	74	SW846 8310
Benzo(a)anthracene	66.7	55.8	ug/kg	84	SW846 8310
Benzo(a)pyrene	**66.7**	**52.8**	**ug/kg**	**79**	**SW846 8310**
Benzo(b)fluoranthene	26.6	21.6	ug/kg	81	SW846 8310
Benzo(ghi)perylene	106	86.6	ug/kg	81	SW846 8310
Benzo(k)fluoranthene	26.6	9.87 a	ug/kg	37	SW846 8310
Chrysene	66.7	57.7	ug/kg	87	SW846 8310
Dibenz(a,h)anthracene	266	206	ug/kg	78	SW846 8310
Fluoranthene	66.7	52.8	ug/kg	79	SW846 8310
Fluorene	**133**	**87.8**	**ug/kg**	**66**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**66.7**	**54.8**	**ug/kg**	**82**	**SW846 8310**
Naphthalene	**667**	**461**	**ug/kg**	**69**	**SW846 8310**
Phenanthrene	53.2	38.7	ug/kg	73	SW846 8310
Pyrene	**133**	**107**	**ug/kg**	**80**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Methylnaphthalene	71	(41 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E1D020174 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium			Work Order #:	EAG301AC	LCS Lot-Sample#:	E1D040000-311	
	0.250	0.242	mg/kg	97	SW846 7196A	04/04/01	1094311

Dilution Factor: 1

Analysis Time..: 11:42 Analyst ID.....: 000022 Instrument ID..: W06

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: E1D020174 **Work Order #...:** EAC111AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1D030000-382
Prep Date.....: 04/03/01 **Analysis Date..:** 04/04/01
Prep Batch #...: 1093382 **Analysis Time..:** 10:16
Dilution Factor: 1 **Instrument ID..:** G8B
Analyst ID.....: 018568

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**113**	**(65 - 130)**	**SW846 8082**
Aroclor 1260	**111**	**(70 - 130)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	108	(60 - 140)
Tetrachloro-m-xylene	84	(60 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: E1D020174 **Work Order #...:** EAC2M1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1D030000-385
Prep Date.....: 04/03/01 **Analysis Date..:** 04/10/01
Prep Batch #...: 1093385 **Analysis Time..:** 11:16
Dilution Factor: 1 **Instrument ID..:** MSE
Analyst ID.....: 010060

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**74**	**(50 - 125)**	**SW846 8270C**
4-Chloro-3-methylphenol	**81**	**(50 - 110)**	**SW846 8270C**
2-Chlorophenol	**81**	**(50 - 120)**	**SW846 8270C**
1,4-Dichlorobenzene	**69**	**(40 - 115)**	**SW846 8270C**
2,4-Dinitrotoluene	**80**	**(40 - 120)**	**SW846 8270C**
4-Nitrophenol	**58**	**(10 - 120)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**89**	**(40 - 120)**	**SW846 8270C**
Pentachlorophenol	**59**	**(20 - 130)**	**SW846 8270C**
Phenol	**75**	**(40 - 110)**	**SW846 8270C**
Pyrene	**75**	**(50 - 140)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**69**	**(50 - 115)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	73	(40 - 130)
2-Fluorophenol	89	(50 - 115)
2,4,6-Tribromophenol	75	(30 - 115)
Nitrobenzene-d5	70	(45 - 115)
Phenol-d5	83	(50 - 120)
Terphenyl-d14	76	(50 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: E1D020174 **Work Order #...:** EAEXJ1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G1D040000-371
Prep Date.....: 04/04/01 **Analysis Date..:** 04/11/01
Prep Batch #...: 1094371 **Analysis Time..:** 07:14
Dilution Factor: 1 **Instrument ID..:** LC7
Analyst ID.....: 057134

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	83	(50 - 150)	SW846 8310
Acenaphthylene	78	(50 - 150)	SW846 8310
Anthracene	74	(50 - 150)	SW846 8310
Benzo(a)anthracene	84	(50 - 150)	SW846 8310
Benzo(a)pyrene	**79**	**(49 - 107)**	**SW846 8310**
Benzo(b)fluoranthene	81	(50 - 150)	SW846 8310
Benzo(ghi)perylene	81	(50 - 150)	SW846 8310
Benzo(k)fluoranthene	37 a	(50 - 150)	SW846 8310
Chrysene	87	(50 - 150)	SW846 8310
Dibenz(a,h)anthracene	78	(50 - 150)	SW846 8310
Fluoranthene	79	(50 - 150)	SW846 8310
Fluorene	**66**	**(43 - 112)**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**82**	**(54 - 114)**	**SW846 8310**
Naphthalene	**69**	**(44 - 110)**	**SW846 8310**
Phenanthrene	73	(50 - 150)	SW846 8310
Pyrene	**80**	**(49 - 115)**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Methylnaphthalene	71	(41 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E1D020174 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		Work Order #: EAG301AC	LCS Lot-Sample#: E1D040000-311		
	97	(80 - 120)	SW846 7196A	04/04/01	1094311

Dilution Factor: 1

Analysis Time..: 11:42 Analyst ID.....: 000022 Instrument ID..: W06

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: E1D020174 **Work Order #...:** DX1Q91AG-MS **Matrix.....:** SOLID
MS Lot-Sample #: E1C270140-001 DX1Q91AH-MSD
Date Sampled...: 03/12/01 13:55 **Date Received..:** 03/13/01 17:30 **MS Run #.....:** 1094202
Prep Date.....: 04/04/01 **Analysis Date..:** 04/10/01
Prep Batch #...: 1094371 **Analysis Time..:** 17:04
Dilution Factor: 1 **Analyst ID.....:** 057134 **Instrument ID..:** LC7

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	ND	1330	1130	ug/kg	85		SW846 8310
	ND	1330	1020	ug/kg	77	10	SW846 8310
Acenaphthylene	ND	667	521	ug/kg	78		SW846 8310
	ND	667	543	ug/kg	81	4.1	SW846 8310
Anthracene	ND	26.6	18.6	ug/kg	70		SW846 8310
	ND	26.6	20.7	ug/kg	78	11	SW846 8310
Benzo(a)anthracene	ND	66.7	54.6	ug/kg	82		SW846 8310
	ND	66.7	54.8	ug/kg	82	0.33	SW846 8310
Benzo(a)pyrene	**ND**	**66.7**	**52.4**	**ug/kg**	**78**		**SW846 8310**
	ND	**66.7**	**51.4**	**ug/kg**	**77**	**1.8**	**SW846 8310**
Benzo(b)fluoranthene	ND	26.6	23.4	ug/kg	88		SW846 8310
	ND	26.6	22.0	ug/kg	83	6.1	SW846 8310
Benzo(ghi)perylene	ND	106	119	ug/kg	112		SW846 8310
	ND	106	95.1	ug/kg	90	22	SW846 8310
Benzo(k)fluoranthene	ND	26.6	22.3	ug/kg	84		SW846 8310
	ND	26.6	20.7	ug/kg	78	7.4	SW846 8310
Chrysene	ND	66.7	60.4	ug/kg	91		SW846 8310
	ND	66.7	58.5	ug/kg	88	3.2	SW846 8310
Dibenz(a,h)anthracene	ND	266	197	ug/kg	74		SW846 8310
	ND	266	203	ug/kg	76	3.0	SW846 8310
Fluoranthene	ND	66.7	52.0	ug/kg	78		SW846 8310
	ND	66.7	55.6	ug/kg	83	6.7	SW846 8310
Fluorene	**ND**	**133**	**77.2**	**ug/kg**	**58**		**SW846 8310**
	ND	**133**	**102**	**ug/kg**	**77**	**28**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**ND**	**66.7**	**52.9**	**ug/kg**	**79**		**SW846 8310**
	ND	**66.7**	**52.8**	**ug/kg**	**79**	**0.21**	**SW846 8310**
Naphthalene	**ND**	**667**	**451**	**ug/kg**	**68**		**SW846 8310**
	ND	**667**	**488**	**ug/kg**	**73**	**7.9**	**SW846 8310**
Phenanthrene	ND	53.2	38.1	ug/kg	72		SW846 8310
	ND	53.2	44.2	ug/kg	83	15	SW846 8310
Pyrene	**ND**	**133**	**96.3**	**ug/kg**	**72**		**SW846 8310**
	ND	**133**	**107**	**ug/kg**	**80**	**11**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Methylnaphthalene	68	(41 - 115)
	70	(41 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...:	E1D020174	**Work Order #...:**	EAAJ91AE-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1D020174-001		EAAJ91AF-MSD		
Date Sampled...:	03/21/01 08:00	**Date Received..:**	03/26/01 14:20	**MS Run #.....:**	1093209
Prep Date.....:	04/03/01	**Analysis Date..:**	04/04/01		
Prep Batch #...:	1093382	**Analysis Time..:**	13:35		
Dilution Factor:	1	**Analyst ID.....:**	018568	**Instrument ID..:**	G8B

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Aroclor 1016	**ND**	**333**	**284**	**ug/kg**	**85**		**SW846 8082**
	ND	**333**	**269**	**ug/kg**	**81**	**5.5**	**SW846 8082**
Aroclor 1260	**ND**	**333**	**289**	**ug/kg**	**87**		**SW846 8082**
	ND	**333**	**254**	**ug/kg**	**76**	**13**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	93	(60 - 140)
	83	(60 - 140)
Tetrachloro-m-xylene	81	(60 - 140)
	67	(60 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...:	E1D020174	**Work Order #...:**	EAAJ91AG-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1D020174-001		EAAJ91AH-MSD		
Date Sampled...:	03/21/01 08:00	**Date Received..:**	03/26/01 14:20	**MS Run #.....:**	1093221
Prep Date.....:	04/03/01	**Analysis Date..:**	04/10/01		
Prep Batch #...:	1093385	**Analysis Time..:**	13:13		
Dilution Factor:	1	**Analyst ID.....:**	010060	**Instrument ID..:**	MSE

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	**ND**	**3330**	**2150**	**ug/kg**	**65**		**SW846 8270C**
	ND	**3330**	**2200**	**ug/kg**	**66**	**2.1**	**SW846 8270C**
4-Chloro-3-methylphenol	**ND**	**5000**	**3110**	**ug/kg**	**62**		**SW846 8270C**
	ND	**5000**	**3120**	**ug/kg**	**62**	**0.48**	**SW846 8270C**
2-Chlorophenol	**ND**	**5000**	**3050**	**ug/kg**	**61**		**SW846 8270C**
	ND	**5000**	**2910**	**ug/kg**	**58**	**4.7**	**SW846 8270C**
1,4-Dichlorobenzene	**ND**	**3330**	**1720**	**ug/kg**	**52**		**SW846 8270C**
	ND	**3330**	**1720**	**ug/kg**	**52**	**0.05**	**SW846 8270C**
2,4-Dinitrotoluene	**ND**	**3330**	**1730**	**ug/kg**	**52**		**SW846 8270C**
	ND	**3330**	**1560**	**ug/kg**	**47**	**10**	**SW846 8270C**
4-Nitrophenol	**ND**	**5000**	**3350**	**ug/kg**	**67**		**SW846 8270C**
	ND	**5000**	**3680**	**ug/kg**	**74**	**9.2**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**ND**	**3330**	**2300**	**ug/kg**	**69**		**SW846 8270C**
	ND	**3330**	**2440**	**ug/kg**	**73**	**6.0**	**SW846 8270C**
Pentachlorophenol	**ND**	**5000**	**2440**	**ug/kg**	**49**		**SW846 8270C**
	ND	**5000**	**2080**	**ug/kg**	**42**	**16**	**SW846 8270C**
Phenol	**ND**	**5000**	**2680**	**ug/kg**	**54**		**SW846 8270C**
	ND	**5000**	**2500**	**ug/kg**	**50**	**7.0**	**SW846 8270C**
Pyrene	**500**	**3330**	**2740**	**ug/kg**	**67**		**SW846 8270C**
	500	**3330**	**2820**	**ug/kg**	**70**	**2.8**	**SW846 8270C**
1,2,4-Trichloro-benzene	**ND**	**3330**	**1900**	**ug/kg**	**57**		**SW846 8270C**
	ND	**3330**	**1920**	**ug/kg**	**58**	**0.94**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	63	(40 - 130)
	65	(40 - 130)
2-Fluorophenol	45 *	(50 - 115)
	42 *	(50 - 115)
2,4,6-Tribromophenol	64	(30 - 115)
	63	(30 - 115)
Nitrobenzene-d5	52	(45 - 115)
	53	(45 - 115)
Phenol-d5	64	(50 - 120)
	60	(50 - 120)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: E1D020174 **Work Order #...:** EAAJ91AG-MS **Matrix.....:** SOLID
MS Lot-Sample #: E1D020174-001 EAAJ91AH-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	78	(50 - 140)
	80	(50 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

The surrogate recovery in the sample is outside control limits due to confirmed matrix effect.

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E1D020174 **Matrix.....:** SOLID
Date Sampled...: 03/30/01 09:55 **Date Received..:** 03/30/01 16:45

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium			WO#: DX9DL1AD-MS/DX9DL1AE-MSD				MS Lot-Sample #: E1C300327-005		
	ND	0.250	0.247	mg/kg	99		SW846 7196A	04/04/01	1094311
	ND	0.250	0.236	mg/kg	95	4.4	SW846 7196A	04/04/01	1094311

Dilution Factor: 1
Analysis Time..: 11:48 Instrument ID..: W06 Analyst ID.....: 000022
MS Run #.....: 1095273

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...:	E1D020174	**Work Order #...:**	DX1Q91AG-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1C270140-001		DX1Q91AH-MSD		
Date Sampled...:	03/12/01 13:55	**Date Received..:**	03/13/01 17:30	**MS Run #.....:**	1094202
Prep Date.....:	04/04/01	**Analysis Date..:**	04/10/01		
Prep Batch #...:	1094371	**Analysis Time..:**	17:04		
Dilution Factor:	1	**Analyst ID.....:**	057134	**Instrument ID..:**	LC7

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	85	(50 - 150)			SW846 8310
	77	(50 - 150)	10	(0-50)	SW846 8310
Acenaphthylene	78	(50 - 150)			SW846 8310
	81	(50 - 150)	4.1	(0-50)	SW846 8310
Anthracene	70	(50 - 150)			SW846 8310
	78	(50 - 150)	11	(0-50)	SW846 8310
Benzo(a)anthracene	82	(50 - 150)			SW846 8310
	82	(50 - 150)	0.33	(0-50)	SW846 8310
Benzo(a)pyrene	**78**	**(49 - 107)**			**SW846 8310**
	77	**(49 - 107)**	**1.8**	**(0-53)**	**SW846 8310**
Benzo(b)fluoranthene	88	(50 - 150)			SW846 8310
	83	(50 - 150)	6.1	(0-50)	SW846 8310
Benzo(ghi)perylene	112	(50 - 150)			SW846 8310
	90	(50 - 150)	22	(0-50)	SW846 8310
Benzo(k)fluoranthene	84	(50 - 150)			SW846 8310
	78	(50 - 150)	7.4	(0-50)	SW846 8310
Chrysene	91	(50 - 150)			SW846 8310
	88	(50 - 150)	3.2	(0-50)	SW846 8310
Dibenz(a,h)anthracene	74	(50 - 150)			SW846 8310
	76	(50 - 150)	3.0	(0-50)	SW846 8310
Fluoranthene	78	(50 - 150)			SW846 8310
	83	(50 - 150)	6.7	(0-50)	SW846 8310
Fluorene	**58**	**(43 - 112)**			**SW846 8310**
	77	**(43 - 112)**	**28**	**(0-56)**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**79**	**(54 - 114)**			**SW846 8310**
	79	**(54 - 114)**	**0.21**	**(0-51)**	**SW846 8310**
Naphthalene	**68**	**(44 - 110)**			**SW846 8310**
	73	**(44 - 110)**	**7.9**	**(0-50)**	**SW846 8310**
Phenanthrene	72	(50 - 150)			SW846 8310
	83	(50 - 150)	15	(0-50)	SW846 8310
Pyrene	**72**	**(49 - 115)**			**SW846 8310**
	80	**(49 - 115)**	**11**	**(0-54)**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Methylnaphthalene	68	(41 - 115)
	70	(41 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...:	E1D020174	**Work Order #...:**	EAAJ91AE-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1D020174-001		EAAJ91AF-MSD		
Date Sampled...:	03/21/01 08:00	**Date Received..:**	03/26/01 14:20	**MS Run #.....:**	1093209
Prep Date.....:	04/03/01	**Analysis Date..:**	04/04/01		
Prep Batch #...:	1093382	**Analysis Time..:**	13:35		
Dilution Factor:	1	**Analyst ID.....:**	018568	**Instrument ID..:**	G8B

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**85**	**(65 - 130)**			**SW846 8082**
	81	**(65 - 130)**	**5.5**	**(0-30)**	**SW846 8082**
Aroclor 1260	**87**	**(70 - 130)**			**SW846 8082**
	76	**(70 - 130)**	**13**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	93	(60 - 140)
	83	(60 - 140)
Tetrachloro-m-xylene	81	(60 - 140)
	67	(60 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...:	E1D020174	**Work Order #...:**	EAAJ91AG-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1D020174-001		EAAJ91AH-MSD		
Date Sampled...:	03/21/01 08:00	**Date Received..:**	03/26/01 14:20	**MS Run #.....:**	1093221
Prep Date.....:	04/03/01	**Analysis Date..:**	04/10/01		
Prep Batch #...:	1093385	**Analysis Time..:**	13:13		
Dilution Factor:	1	**Analyst ID.....:**	010060	**Instrument ID..:**	MSE

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**65**	**(50 - 125)**			**SW846 8270C**
	66	**(50 - 125)**	**2.1**	**(0-35)**	**SW846 8270C**
4-Chloro-3-methylphenol	**62**	**(50 - 110)**			**SW846 8270C**
	62	**(50 - 110)**	**0.48**	**(0-35)**	**SW846 8270C**
2-Chlorophenol	**61**	**(50 - 120)**			**SW846 8270C**
	58	**(50 - 120)**	**4.7**	**(0-35)**	**SW846 8270C**
1,4-Dichlorobenzene	**52**	**(40 - 115)**			**SW846 8270C**
	52	**(40 - 115)**	**0.05**	**(0-35)**	**SW846 8270C**
2,4-Dinitrotoluene	**52**	**(40 - 120)**			**SW846 8270C**
	47	**(40 - 120)**	**10**	**(0-35)**	**SW846 8270C**
4-Nitrophenol	**67**	**(10 - 120)**			**SW846 8270C**
	74	**(10 - 120)**	**9.2**	**(0-35)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**69**	**(40 - 120)**			**SW846 8270C**
	73	**(40 - 120)**	**6.0**	**(0-35)**	**SW846 8270C**
Pentachlorophenol	**49**	**(20 - 130)**			**SW846 8270C**
	42	**(20 - 130)**	**16**	**(0-35)**	**SW846 8270C**
Phenol	**54**	**(40 - 110)**			**SW846 8270C**
	50	**(40 - 110)**	**7.0**	**(0-35)**	**SW846 8270C**
Pyrene	**67**	**(50 - 140)**			**SW846 8270C**
	70	**(50 - 140)**	**2.8**	**(0-35)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**57**	**(50 - 115)**			**SW846 8270C**
	58	**(50 - 115)**	**0.94**	**(0-35)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	63	(40 - 130)
	65	(40 - 130)
2-Fluorophenol	45 *	(50 - 115)
	42 *	(50 - 115)
2,4,6-Tribromophenol	64	(30 - 115)
	63	(30 - 115)
Nitrobenzene-d5	52	(45 - 115)
	53	(45 - 115)
Phenol-d5	64	(50 - 120)
	60	(50 - 120)

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: E1D020174 **Work Order #...:** EAAJ91AG-MS **Matrix.....:** SOLID
MS Lot-Sample #: E1D020174-001 EAAJ91AH-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	78	(50 - 140)
	80	(50 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

The surrogate recovery in the sample is outside control limits due to confirmed matrix effect.

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E1D020174 **Matrix.....:** SOLID
Date Sampled...: 03/30/01 09:55 **Date Received..:** 03/30/01 16:45

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		WO#: DX9DL1AD-MS/DX9DL1AE-MSD				MS Lot-Sample #: E1C300327-005	
	99	(80 - 120)			SW846 7196A	04/04/01	1094311
	95	(80 - 120)	4.4	(0-20)	SW846 7196A	04/04/01	1094311

Dilution Factor: 1
Analysis Time..: 11:48 Instrument ID..: W06 Analyst ID.....: 000022
MS Run #.....: 1095273

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.