

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

10/30/2006

Laboratory Identifier: 0610536

Received: 10/24/2006 16:58

Sampled by: Brian Dortch

Client: Blue Water

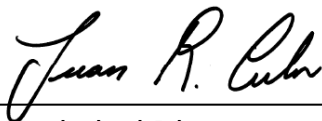
1610 New Highway
Farmingdale,
NY 11735

Project: Island Park Pilot Study

7 Washington Ave
Island Park,
NY 11558

Manager: Greg Ernst

Respectfully submitted,



Technical Director

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
MA Cert. # NY061
PA Cert. # 68-535
NH Cert. # 252592-BA
RI Cert. # 161

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Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

10/30/2006

STARS Volatile Compounds by SW 846 8260

Sample: 0610536-1

Client Sample ID: RS-6

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 10/26/2006

Type: Composite

Collected: 10/24/2006 10:45

% Solid: 92%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
1634-04-4	MTBE	C2373-9237	101	101	ppb	U
71-43-2	Benzene	C2373-9237	99.3	99.3	ppb	U
108-88-3	Toluene	C2373-9237	74.8	74.8	ppb	U
100-41-4	Ethylbenzene	C2373-9237	95.2	205	ppb	Y
108-38-3	m,p-xylene	C2373-9237	156	95.4	ppb	J
95-47-6	o-xylene	C2373-9237	92.5	143	ppb	Y
1330-20-7	Xylenes(Total)	C2373-9237	125	238	ppb	Y
98-82-8	Isopropylbenzene	C2373-9237	87.0	134	ppb	Y
103-65-1	n-Propylbenzene	C2373-9237	87.0	337	ppb	Y
108-67-8	1,3,5-Trimethylbenzene	C2373-9237	76.2	1090	ppb	
98-06-6	tert-Butylbenzene	C2373-9237	76.2	76.2	ppb	U
95-63-6	1,2,4-Trimethylbenzene	C2373-9237	73.4	2590	ppb	
135-98-8	sec-Butylbenzene	C2373-9237	78.9	412	ppb	Y
99-87-6	p-Isopropyltoluene	C2373-9237	73.4	526	ppb	Y
104-51-8	n-Butylbenzene	C2373-9237	78.9	78.9	ppb	U
91-20-3	Naphthalene	C2373-9237	84.3	921	ppb	

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	C2373-9237	106.0 %	(74 - 124)	
4774-33-8	DIBROMOFLUOROMETHANE	C2373-9237	114.0 %	(77 - 162)	
2037-26-5	TOLUENE-D8	C2373-9237	102.0 %	(73 - 120)	



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10/30/2006

STARS Volatile Compounds by SW 846 8260

Sample: 0610536-2

Client Sample ID: RS-5

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 10/27/2006

Type: Composite

Collected: 10/24/2006 14:30

% Solid: 91.2%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
1634-04-4	MTBE	C2374-9257	101	101	ppb	U
71-43-2	Benzene	C2374-9257	100	451	ppb	Y
108-88-3	Toluene	C2374-9257	75.3	422	ppb	Y
100-41-4	Ethylbenzene	C2374-9257	95.9	95.9	ppb	U
108-38-3	m,p-xylene	C2374-9257	158	158	ppb	U
95-47-6	o-xylene	C2374-9257	93.2	93.2	ppb	U
1330-20-7	Xylenes(Total)	C2374-9257	126	126	ppb	U
98-82-8	Isopropylbenzene	C2374-9257	87.7	102	ppb	Y
103-65-1	n-Propylbenzene	C2374-9257	87.7	341	ppb	Y
108-67-8	1,3,5-Trimethylbenzene	C2374-9257	76.7	455	ppb	Y
98-06-6	tert-Butylbenzene	C2374-9257	76.7	275	ppb	Y
95-63-6	1,2,4-Trimethylbenzene	C2374-9257	74.0	2470	ppb	
135-98-8	sec-Butylbenzene	C2374-9257	79.5	452	ppb	Y
99-87-6	p-Isopropyltoluene	C2374-9257	74.0	1430	ppb	
104-51-8	n-Butylbenzene	C2374-9257	79.5	1020	ppb	
91-20-3	Naphthalene	C2374-9257	84.9	865	ppb	

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	C2374-9257	111.0 %	(74 - 124)	
4774-33-8	DIBROMOFLUOROMETHANE	C2374-9257	117.0 %	(77 - 162)	
2037-26-5	TOLUENE-D8	C2374-9257	101.0 %	(73 - 120)	



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10/30/2006

STARS Semivolatiles by SW846 8270C

Sample: 0610536-1

Client Sample ID: RS-6

Matrix: Soil

Remarks:

Analyzed Date: 10/27/2006

Preparation Date(s) : 10/27/2006

Type: Composite

Collected: 10/24/2006 10:45

% Solid: 92%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
91-20-3	Naphthalene	A 1603-9851	37.1	37.1	ppb	U
83-32-9	Acenaphthene	A 1603-9851	30.5	1130	ppb	
86-73-7	Fluorene	A 1603-9851	27.3	1590	ppb	
85-01-8	Phenanthrene	A 1603-9851	27.3	7120	ppb	
120-12-7	Anthracene	A 1603-9851	25.1	893	ppb	
206-44-0	Fluoranthene	A 1603-9851	29.4	6020	ppb	
129-00-0	Pyrene	A 1603-9851	24.0	4370	ppb	
56-55-3	Benzo(a)anthracene	A 1603-9851	19.6	1760	ppb	
218-01-9	Chrysene	A 1603-9851	27.3	2270	ppb	
205-99-2	Benzo(b)fluoranthene	A 1603-9851	39.2	1580	ppb	
207-08-9	Benzo(k)fluoranthene	A 1603-9851	18.5	1590	ppb	
50-32-8	Benzo(a)pyrene	A 1603-9851	17.4	1580	ppb	
193-39-5	Indeno(1,2,3-cd)pyrene	A 1603-9851	21.8	826	ppb	
53-70-3	Dibenzo(a,h)anthracene	A 1603-9851	19.6	277	ppb	Y
191-24-2	Benzo(g,h,i)perylene	A 1603-9851	27.3	774	ppb	
208-96-8	Acenaphthylene	A 1603-9851	18.5	18.5	ppb	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	A1603-9851	57.9 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	A1603-9851	66.6 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	A1603-9851	52.0 %	(18 - 137)	



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10/30/2006

STARS Semivolatiles by SW846 8270C

Sample: 0610536-2

Client Sample ID: RS-5

Matrix: Soil

Remarks:

Analyzed Date: 10/27/2006

Preparation Date(s) : 10/27/2006

Type: Composite

Collected: 10/24/2006 14:30

% Solid: 91.2%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
91-20-3	Naphthalene	A 1603-9852	37.4	37.4	ppb	U
83-32-9	Acenaphthene	A 1603-9852	30.8	424	ppb	Y
86-73-7	Fluorene	A 1603-9852	27.5	586	ppb	
85-01-8	Phenanthrene	A 1603-9852	27.5	773	ppb	
120-12-7	Anthracene	A 1603-9852	25.3	253	ppb	Y
206-44-0	Fluoranthene	A 1603-9852	29.7	513	ppb	Y
129-00-0	Pyrene	A 1603-9852	24.2	561	ppb	
56-55-3	Benzo(a)anthracene	A 1603-9852	19.8	236	ppb	Y
218-01-9	Chrysene	A 1603-9852	27.5	276	ppb	Y
205-99-2	Benzo(b)fluoranthene	A 1603-9852	39.6	229	ppb	Y
207-08-9	Benzo(k)fluoranthene	A 1603-9852	18.7	228	ppb	Y
50-32-8	Benzo(a)pyrene	A 1603-9852	17.6	244	ppb	Y
193-39-5	Indeno(1,2,3-cd)pyrene	A 1603-9852	22.0	115	ppb	Y
53-70-3	Dibenzo(a,h)anthracene	A 1603-9852	19.8	19.8	ppb	U
191-24-2	Benzo(g,h,i)perylene	A 1603-9852	27.5	119	ppb	Y
208-96-8	Acenaphthylene	A 1603-9852	18.7	18.7	ppb	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	A1603-9852	63.4 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	A1603-9852	78.2 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	A1603-9852	61.2 %	(18 - 137)	



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10/30/2006

TPH - Method 8015B

Sample: 0610536-1

Client Sample ID: RS-6

Matrix: Soil

Type: Composite

Collected: 10/24/2006 10:45

% Solid: 92%

Remarks:

Analyzed Date: 10/27/2006

Preparation Date(s) : 10/27/2006

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Diesel Range Organics	H 506 -5	13.0	7770	ppm	

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	H506-5	126.0 %	(30 - 150)	

Sample: 0610536-2

Client Sample ID: RS-5

Matrix: Soil

Type: Composite

Collected: 10/24/2006 14:30

% Solid: 91.2%

Remarks:

Analyzed Date: 10/27/2006

Preparation Date(s) : 10/27/2006

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Diesel Range Organics	H 506 -6	13.2	4440	ppm	

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	H506-6	116.0 %	(30 - 150)	



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10/30/2006

Gasoline Range Organics - EPA 8015B

Sample: 0610536-1

Client Sample ID: RS-6

Matrix: Soil

Remarks:

Analyzed Date: 10/27/2006

Type: Composite

Collected: 10/24/2006 10:45

% Solid: 92%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Gasoline Range Organics	M 236 -14	0.47	46.0	ppm	

* Results are reported on a dry weight basis

Sample: 0610536-2

Client Sample ID: RS-5

Matrix: Soil

Remarks:

Analyzed Date: 10/27/2006

Type: Composite

Collected: 10/24/2006 14:30

% Solid: 91.2%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Gasoline Range Organics	M 236 -15	0.48	83.8	ppm	

* Results are reported on a dry weight basis



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10/30/2006

Case Narrative

EPA 8260 VOLATILE ANALYSIS:

The following compounds were calibrated at 25, 50, 100, 150 and 200 ppb levels in the initial calibration curve:

- Acetone
- 2-Butanone
- 4-Methyl-2-pentanone
- 2-Hexanone

M&P-Xylenes and 2-Chloroethylvinylether were calibrated at 10, 40, 100, 200 and 300 ppb levels.

Acrolein/Acrylonitrile were calibrated at 50,100,150,200 and 250 ppb levels.

Tert Butyl Alcohol (TBA) was calibrated at 50,200,500,1000 and 1500 ppb levels.

All other compounds were calibrated at 5, 20, 50, 100 and 150 ppb levels.



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ORGANIC METHOD QUALIFIERS

Q - Qualifier - specified entries and their meanings are as follows:

- U - The analytical result is not detected above the Method Detection Limit (MDL).
All MDL's are lower than the lowest calibration standard concentration.
- J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit (MDL).
- Y - The concentration reported was detected below the lowest calibration standard concentration.
- B - The analyte was found in the associated method blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- E - The concentration of the analyte exceeded the calibration range of the instrument.
- D - This flag indicates a system monitoring compound diluted out.

INORGANIC METHOD QUALIFIERS

C - (Concentration) qualifiers are as follows:

- B - Entered if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
- U - Entered when the analyte was analyzed for, but not detected above the Method Detection Limit (MDL) which is less than the lowest calibration standard concentration.

Q - Qualifier specific entries and their meanings are as follows:

- E - Reported value is estimated because of the presence of interferences.

M - (Method) qualifiers are as follows:

- A - Flame AA
- AS - Semi-automated Spectrophotometric
- AV - Automated Cold Vapor AA
- C - Manual Spectrophotometric
- F - Furnace AA
- P - ICP
- T - Titrimetric

OTHER QUALIFIERS

ND - Not Detected

