

Environmental Testing Laboratories, Inc.

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

01/02/2007

Laboratory Identifier: 0612387

Received: 12/19/2006 10:14

Client: Blue Water

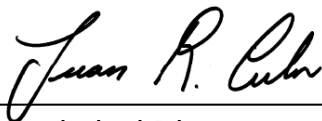
1610 New Highway
Farmingdale,
NY 11735

Project: Island Park Pilot Study

7 Washington Ave
Island Park,
NY 11558

Manager: Greg Ernst (Gannett)

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

01/02/2007

STARS Volatile Compounds by SW 846 8260

Sample: 0612387-1

Client Sample ID: OTC-8-121906

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 12/21/2006

Type: Composite

Collected: 12/19/2006 09:00

% Solid: 88.2%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
1634-04-4	MTBE	B 2243-7278	1.13	1.13	ug/Kg	U
71-43-2	Benzene	B 2243-7278	1.13	1.13	ug/Kg	U
108-88-3	Toluene	B 2243-7278	0.86	0.86	ug/Kg	U
100-41-4	Ethylbenzene	B 2243-7278	0.98	6.71	ug/Kg	Y
108-38-3	m,p-xylene	B 2243-7278	2.27	5.85	ug/Kg	Y
95-47-6	o-xylene	B 2243-7278	1.70	12.2	ug/Kg	
1330-20-7	Xylenes(Total)	B 2243-7278	2.00	18.0	ug/Kg	Y
98-82-8	Isopropylbenzene	B 2243-7278	1.43	5.77	ug/Kg	Y
103-65-1	n-Propylbenzene	B 2243-7278	1.63	13.1	ug/Kg	
108-67-8	1,3,5-Trimethylbenzene	B 2243-7278	1.86	80.0	ug/Kg	
98-06-6	tert-Butylbenzene	B 2243-7278	2.18	10.5	ug/Kg	Y
95-63-6	1,2,4-Trimethylbenzene	B 2243-7278	2.13	113	ug/Kg	
135-98-8	sec-Butylbenzene	B 2243-7278	1.88	15.7	ug/Kg	
99-87-6	p-Isopropyltoluene	B 2243-7278	1.79	59.3	ug/Kg	
104-51-8	n-Butylbenzene	B 2243-7278	2.02	2.02	ug/Kg	U
91-20-3	Naphthalene	B 2243-7278	2.77	2.77	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	B2243-7278	91.4 %	(80 - 110)	
4774-33-8	DIBROMOFLUOROMETHANE	B2243-7278	96.8 %	(68 - 156)	
2037-26-5	TOLUENE-D8	B2243-7278	94.6 %	(89 - 113)	



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STARS Volatile Compounds by SW 846 8260

Sample: 0612387-2

Client Sample ID: PTW-2-121906

Collected: 12/19/2006 09:30

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 12/23/2006

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
1634-04-4	MTBE	C2447-743	1.48	1.48	ug/L	U
71-43-2	Benzene	C2447-743	1.46	7.47	ug/L	Y
108-88-3	Toluene	C2447-743	1.10	1.10	ug/L	U
100-41-4	Ethylbenzene	C2447-743	1.40	1.40	ug/L	U
108-38-3	m,p-xylene	C2447-743	2.30	2.30	ug/L	U
95-47-6	o-xylene	C2447-743	1.36	1.36	ug/L	U
1330-20-7	Xylenes(Total)	C2447-743	1.84	1.84	ug/L	U
98-82-8	Isopropylbenzene	C2447-743	1.28	1.28	ug/L	U
103-65-1	n-Propylbenzene	C2447-743	1.28	1.28	ug/L	U
108-67-8	1,3,5-Trimethylbenzene	C2447-743	1.12	1.12	ug/L	U
98-06-6	tert-Butylbenzene	C2447-743	1.12	1.12	ug/L	U
95-63-6	1,2,4-Trimethylbenzene	C2447-743	1.08	1.08	ug/L	U
135-98-8	sec-Butylbenzene	C2447-743	1.16	1.16	ug/L	U
99-87-6	p-Isopropyltoluene	C2447-743	1.08	1.08	ug/L	U
104-51-8	n-Butylbenzene	C2447-743	1.16	1.16	ug/L	U
91-20-3	Naphthalene	C2447-743	1.24	1.24	ug/L	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	C2447-743	99.1 %	(78 - 112)	
4774-33-8	DIBROMOFLUOROMETHANE	C2447-743	99.4 %	(69 - 129)	
2037-26-5	TOLUENE-D8	C2447-743	100.0 %	(90 - 108)	



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01/02/2007

STARS Volatile Compounds by SW 846 8260

Sample: 0612387-3

Client Sample ID: PTW-1-121906

Collected: 12/19/2006 10:00

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 12/23/2006

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
1634-04-4	MTBE	C2447-744	1.48	1.48	ug/L	U
71-43-2	Benzene	C2447-744	1.46	1.46	ug/L	U
108-88-3	Toluene	C2447-744	1.10	1.10	ug/L	U
100-41-4	Ethylbenzene	C2447-744	1.40	1.40	ug/L	U
108-38-3	m,p-xylene	C2447-744	2.30	2.30	ug/L	U
95-47-6	o-xylene	C2447-744	1.36	1.36	ug/L	U
1330-20-7	Xylenes(Total)	C2447-744	1.84	1.84	ug/L	U
98-82-8	Isopropylbenzene	C2447-744	1.28	1.28	ug/L	U
103-65-1	n-Propylbenzene	C2447-744	1.28	1.28	ug/L	U
108-67-8	1,3,5-Trimethylbenzene	C2447-744	1.12	1.12	ug/L	U
98-06-6	tert-Butylbenzene	C2447-744	1.12	1.12	ug/L	U
95-63-6	1,2,4-Trimethylbenzene	C2447-744	1.08	1.08	ug/L	U
135-98-8	sec-Butylbenzene	C2447-744	1.16	1.16	ug/L	U
99-87-6	p-Isopropyltoluene	C2447-744	1.08	1.08	ug/L	U
104-51-8	n-Butylbenzene	C2447-744	1.16	1.16	ug/L	U
91-20-3	Naphthalene	C2447-744	1.24	1.24	ug/L	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	C2447-744	100.0 %	(78 - 112)	
4774-33-8	DIBROMOFLUOROMETHANE	C2447-744	100.0 %	(69 - 129)	
2037-26-5	TOLUENE-D8	C2447-744	101.0 %	(90 - 108)	



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01/02/2007

STARS Semivolatiles by SW846 8270C

Sample: 0612387-1

Client Sample ID: OTC-8-121906

Matrix: Soil

Type: Composite

Collected: 12/19/2006 09:00

% Solid: 88.2%

Remarks:

Analyzed Date: 12/21/2006

Preparation Date(s) : 12/21/2006

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
91-20-3	Naphthalene	C1733-2350	38.4	38.4	ug/Kg	U
83-32-9	Acenaphthene	C1733-2350	29.4	575	ug/Kg	
86-73-7	Fluorene	C1733-2350	24.9	1010	ug/Kg	
85-01-8	Phenanthrene	C1733-2350	30.5	1950	ug/Kg	
120-12-7	Anthracene	C1733-2350	27.1	287	ug/Kg	Y
206-44-0	Fluoranthene	C1733-2350	22.6	744	ug/Kg	
129-00-0	Pyrene	C1733-2350	22.6	725	ug/Kg	
56-55-3	Benzo(a)anthracene	C1733-2350	15.8	209	ug/Kg	Y
218-01-9	Chrysene	C1733-2350	24.9	286	ug/Kg	Y
205-99-2	Benzo(b)fluoranthene	C1733-2350	14.7	217	ug/Kg	Y
207-08-9	Benzo(k)fluoranthene	C1733-2350	49.7	232	ug/Kg	Y
50-32-8	Benzo(a)pyrene	C1733-2350	21.5	211	ug/Kg	Y
193-39-5	Indeno(1,2,3-cd)pyrene	C1733-2350	23.7	106	ug/Kg	Y
53-70-3	Dibenzo(a,h)anthracene	C1733-2350	19.2	19.2	ug/Kg	U
191-24-2	Benzo(g,h,i)perylene	C1733-2350	19.2	107	ug/Kg	Y
208-96-8	Acenaphthylene	C1733-2350	27.1	27.1	ug/Kg	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	C1733-2350	68.0 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C1733-2350	69.8 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C1733-2350	84.6 %	(18 - 137)	



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01/02/2007

STARS Semivolatiles by SW846 8270C

Sample: 0612387-2

Client Sample ID: PTW-2-121906

Collected: 12/19/2006 09:30

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 12/27/2006

Preparation Date(s) : 12/27/2006

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
91-20-3	Naphthalene	C1735-2376	0.78	0.78	ug/L	U
83-32-9	Acenaphthene	C1735-2376	0.85	0.34	ug/L	J
86-73-7	Fluorene	C1735-2376	0.79	0.79	ug/L	U
85-01-8	Phenanthrene	C1735-2376	0.83	0.83	ug/L	U
120-12-7	Anthracene	C1735-2376	0.92	0.92	ug/L	U
206-44-0	Fluoranthene	C1735-2376	0.99	0.99	ug/L	U
129-00-0	Pyrene	C1735-2376	0.99	0.99	ug/L	U
56-55-3	Benzo(a)anthracene	C1735-2376	0.94	0.94	ug/L	U
218-01-9	Chrysene	C1735-2376	0.94	0.94	ug/L	U
205-99-2	Benzo(b)fluoranthene	C1735-2376	0.99	0.99	ug/L	U
207-08-9	Benzo(k)fluoranthene	C1735-2376	0.94	0.94	ug/L	U
50-32-8	Benzo(a)pyrene	C1735-2376	0.96	0.96	ug/L	U
193-39-5	Indeno(1,2,3-cd)pyrene	C1735-2376	1.00	1.00	ug/L	U
53-70-3	Dibenzo(a,h)anthracene	C1735-2376	0.91	0.91	ug/L	U
191-24-2	Benzo(g,h,i)perylene	C1735-2376	0.86	0.86	ug/L	U
208-96-8	Acenaphthylene	C1735-2376	0.91	0.91	ug/L	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C1735-2376	50.9 %	(43 - 116)	
4165-60-0	NITROBENZENE-D5	C1735-2376	51.1 %	(35 - 114)	
1718-51-0	TERPHENYL-D14	C1735-2376	67.7 %	(33 - 141)	



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01/02/2007

STARS Semivolatiles by SW846 8270C

Sample: 0612387-3

Client Sample ID: PTW-1-121906

Collected: 12/19/2006 10:00

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 12/27/2006

Preparation Date(s) : 12/27/2006

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
91-20-3	Naphthalene	C1735-2379	0.78	0.78	ug/L	U
83-32-9	Acenaphthene	C1735-2379	0.85	2.34	ug/L	Y
86-73-7	Fluorene	C1735-2379	0.79	0.61	ug/L	J
85-01-8	Phenanthrene	C1735-2379	0.83	0.23	ug/L	J
120-12-7	Anthracene	C1735-2379	0.92	0.92	ug/L	U
206-44-0	Fluoranthene	C1735-2379	0.99	0.99	ug/L	U
129-00-0	Pyrene	C1735-2379	0.99	0.99	ug/L	U
56-55-3	Benzo(a)anthracene	C1735-2379	0.94	0.94	ug/L	U
218-01-9	Chrysene	C1735-2379	0.94	0.94	ug/L	U
205-99-2	Benzo(b)fluoranthene	C1735-2379	0.99	0.99	ug/L	U
207-08-9	Benzo(k)fluoranthene	C1735-2379	0.94	0.94	ug/L	U
50-32-8	Benzo(a)pyrene	C1735-2379	0.96	0.96	ug/L	U
193-39-5	Indeno(1,2,3-cd)pyrene	C1735-2379	1.00	1.00	ug/L	U
53-70-3	Dibenzo(a,h)anthracene	C1735-2379	0.91	0.91	ug/L	U
191-24-2	Benzo(g,h,i)perylene	C1735-2379	0.86	0.86	ug/L	U
208-96-8	Acenaphthylene	C1735-2379	0.91	0.91	ug/L	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C1735-2379	60.4 %	(43 - 116)	
4165-60-0	NITROBENZENE-D5	C1735-2379	58.4 %	(35 - 114)	
1718-51-0	TERPHENYL-D14	C1735-2379	59.6 %	(33 - 141)	



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01/02/2007

TPH - Method 8015B

Sample: 0612387-1

Client Sample ID: OTC-8-121906

Matrix: Soil

Type: Composite

Collected: 12/19/2006 09:00

% Solid: 88.2%

Remarks:

Analyzed Date: 12/21/2006

Preparation Date(s) : 12/20/2006

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Diesel Range Organics	H 524 -21	13.6	4840	mg/Kg	

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	H524-21	47.8 %	(30 - 150)	



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01/02/2007

Gasoline Range Organics - EPA 8015B

Sample: 0612387-1

Client Sample ID: OTC-8-121906

Matrix: Soil

Type: Composite

Collected: 12/19/2006 09:00

% Solid: 88.2%

Remarks:

Analyzed Date: 12/20/2006

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Gasoline Range Organics	M 243 -14	0.49	30.9	mg/Kg	

* Results are reported on a dry weight basis



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01/02/2007

Ammonia as NH3 - EPA 350.2

Sample: 0612387-2

Client Sample ID: PTW-2-121906

Collected: 12/19/2006 09:30

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 12/23/2006

Analytical Results

Cas No	Analyte	MDL	Result	Units	Q
7664-41-7	Ammonia	0.80	47.7	mg/L	

Sample: 0612387-3

Client Sample ID: PTW-1-121906

Collected: 12/19/2006 10:00

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 12/23/2006

Analytical Results

Cas No	Analyte	MDL	Result	Units	Q
7664-41-7	Ammonia	0.80	5.92	mg/L	



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Nitrogen/Nitrate - EPA 353.2

Sample: 0612387-2

Client Sample ID: PTW-2-121906

Collected: 12/19/2006 09:30

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 12/19/2006

Analytical Results

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.025	0.99	mg/L	Y

Sample: 0612387-3

Client Sample ID: PTW-1-121906

Collected: 12/19/2006 10:00

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 12/19/2006

Analytical Results

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.025	0.97	mg/L	Y



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01/02/2007

Total Kjeldahl Nitrogen - EPA 351.3

Sample: 0612387-2

Client Sample ID: PTW-2-121906

Collected: 12/19/2006 09:30

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 12/22/2006

Analytical Results

Cas No	Analyte	MDL	Result	Units	Q
	TKN	1.18	49.5	mg/L	

Sample: 0612387-3

Client Sample ID: PTW-1-121906

Collected: 12/19/2006 10:00

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 12/22/2006

Analytical Results

Cas No	Analyte	MDL	Result	Units	Q
	TKN	1.18	6.73	mg/L	



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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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01/02/2007

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

