October 7, 2013

LLP

KNAUF

SHAW

Benjamin Conlon, Esq. Remediation Bureau Chief Division of Environmental Remediation 625 Broadway Albany, New York 12233-7014

RE: Chatsworth Coal & Supply Site Tax Map ID Nos.: 6-602-494.2; 6-601-486.1 Property County: Westchester Applicant: WB Pinebrook Associates, LLC Site No.: C360132

Dear Ben:

In response to your September 20, 2013 letter in relation to this pending Brownfield Site, attached please find the supplemental investigation sampling results, which supplement the existing site data previously provided with the BCP Application for the aforementioned Site. Please recall you had requested more sampling throughout the Site to demonstrate Site-wide contamination unaffiliated with the documented petroleum spill.

Various metals (most notably lead, arsenic and cadmium), volatile organic compounds (VOCs – Tetrachloroethene, 1,2,4-Trimethylbenze and Ethylbenzene), a number of semi-volatile organic compounds (SVOCs - two to four times over the Track 2 SCOs), and pesticides (4-4'DDT and Chlordane) were detected in the new soil samples above the applicable Track 1 SCOs and above groundwater standards.

We trust this additional data demonstrates this Site is a brownfield and thus satisfies the BCP eligibility requirements. Since this application has been pending since July 2013, on behalf of the BCP Volunteer, we respectfully request approval of the application and receipt of the Brownfield Cleanup Agreement (BCA) this week. My client is scheduled to close with Westchester County on this affordable housing development on October 25, 2013, but will be unable to do so without clarification of BCP eligibility since this project cannot proceed without BCP participation. We look forward to the Department's eligibility determination.

Sincerely,

**KNAUF SHAW LLP** 

Jen Rohan

LINDA R. SHAW, ESQ.

cc: George W. Heitzman, P.E. Andrew Guglielmi, Esq., DEC Rosalie Rusinko, DEC Scott Deyette, DEC

587 East Middle Turnpike														
	ab Sample Id			BF4518 9/24/20		BF45186 9/24/2013	BF45187 9/24/2013	BF45188 9/24/2013	BF45189 9/24/2013	BF45190 9/24/2013	BF45191 9/24/2013	BF45192 9/24/2013	BF45193 9/24/2013	BF45194 9/24/2013
(860) 645-1102	Client Id			9/24/20 B-1 (2-4		9/24/2013 B-2 (6-8 FT)	<b>B-3 (2-4 FT)</b>	9/24/2013 B-4 (1-3 FT)		B-6 (1-3 FT)	B-7 (1-3 FT)	B-8 (3-5 FT)	B-9 (3-5 FT)	
	Matrix	Track 2	Track 1	Soil	,	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Project Id : LARCHMONT		Residential	Unrestricted		D.									
	Units	Use	Use	Result	RL	Result RL	Result RL	Result RL	Result RL	Result RL	Result RL	Result RL	Result RL	Result RL
Volatiles By SW8260 1,1,1,2-Tetrachloroethane	ug/Kg			ND	11	ND 12	ND 18	B ND 1 <sup>2</sup>	ND 560	) ND 11	ND 21	ND 6.6	ND 14	ND 11
1,1,1-Trichloroethane	ug/Kg ug/Kg	100,000	680	ND	14 14	ND 12	ND 18				ND 21	ND 6.6 ND 6.6	ND 14	ND 11
1,1,2,2-Tetrachloroethane	ug/Kg	100,000	000	ND	8.5	ND 7.2			ND 340			ND 4	ND 8.1	ND 6.7
1,1,2-Trichloroethane	ug/Kg			ND	14	ND 12	ND 18		ND 560		ND 21	ND 6.6	ND 14	ND 11
1,1-Dichloroethane	ug/Kg	19,000	270	ND	14	ND 12	ND 18		ND 560		ND 21	ND 6.6	ND 14	ND 11
1,1-Dichloroethene 1,1-Dichloropropene	ug/Kg ug/Kg	100,000	330	ND ND	14 14	ND 12 ND 12	ND 18 ND 18		ND 560 ND 560		ND 21 ND 21	ND 6.6 ND 6.6	ND 14 ND 14	ND 11 ND 11
1,2,3-Trichlorobenzene	ug/Kg			ND	14	ND 12	ND 18					ND 6.6		ND 11
1,2,3-Trichloropropane	ug/Kg			ND	14	ND 12	ND 18				ND 21	ND 6.6		ND 11
1,2,4-Trichlorobenzene	ug/Kg	17.000	0.000	ND	14	ND 12	ND 18				ND 21	ND 6.6		ND 11
1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane	ug/Kg ug/Kg	47,000	3,600	ND ND	14 14	ND 12 ND 12	ND 18 ND 18				ND 21 ND 21	ND 6.6 ND 6.6	ND 14 ND 14	ND 11 ND 11
1,2-Dibromoethane	ug/Kg			ND	14	ND 12	ND 18				ND 21	ND 6.6	ND 14	ND 11
1,2-Dichlorobenzene	ug/Kg	100,000	1,100	ND	14	ND 12	ND 18	B ND 330	ND 560	0 ND 300	ND 21	ND 6.6	ND 14	ND 11
1,2-Dichloroethane	ug/Kg	2,300	20	ND	14	ND 12	ND 18		ND 560		ND 20	ND 6.6		ND 11
1,2-Dichloropropane 1,3,5-Trimethylbenzene	ug/Kg ug/Kg	47,000	8,400	ND ND	14 14	ND 12 ND 12	ND 18 ND 18		ND 560 3,600 560		ND 21 ND 21	ND 6.6 ND 6.6	ND 14 ND 14	ND 11 ND 11
1,3-Dichlorobenzene	ug/Kg	17,000	2,400	ND	14	ND 12					ND 21	ND 6.6		ND 11
1,3-Dichloropropane	ug/Kg			ND	14	ND 12	ND 18	B ND 1 <sup>2</sup>	ND 560	0 ND 11	ND 21	ND 6.6	ND 14	ND 11
1,4-Dichlorobenzene	ug/Kg	9,800	1,800	ND	14	ND 12	ND 18				ND 21	ND 6.6		ND 11
2,2-Dichloropropane 2-Chlorotoluene	ug/Kg ug/Kg			ND ND	14 14	ND 12 ND 12	ND 18 ND 18				ND 21 ND 21	ND 6.6 ND 6.6	ND 14 ND 14	ND 11 ND 11
2-Hexanone	ug/Kg			ND	70	ND 60					ND 100	ND 33		ND 56
2-Isopropyltoluene	ug/Kg			ND	14	ND 12	ND 18		,		ND 21	ND 6.6	ND 14	ND 11
4-Chlorotoluene	ug/Kg			ND	14	ND 12	ND 18				110 21	ND 6.6	ND 14	ND 11
4-Methyl-2-pentanone Acetone	ug/Kg ug/Kg	100,000	50	ND ND	70 50	ND 60 ND 50	ND 89 ND 50			0 ND 57 0 ND 50	ND 100 ND 120	ND 33 ND 40	ND 68 ND 50	ND 56 ND 50
Acrylonitrile	ug/Kg	100,000	50	ND	14	ND 12	ND 18		ND 560		ND 21	ND 40	ND 14	ND 11
Benzene	ug/Kg	2,900	60	ND	14	ND 12	ND 18	B ND 1'	ND 560	) ND 11	ND 21	ND 6.6	ND 14	ND 11
Bromobenzene	ug/Kg			ND	14	ND 12	ND 18				ND 21	ND 6.6	ND 14	ND 11
Bromochloromethane Bromodichloromethane	ug/Kg ug/Kg			ND ND	14 14	ND 12 ND 12	ND 18 ND 18		ND 560 ND 560		ND 21 ND 21	ND 6.6 ND 6.6	ND 14 ND 14	ND 11 ND 11
Bromoform	ug/Kg ug/Kg			ND	14	ND 12	ND 18		ND 560		ND 21	ND 6.6	ND 14	ND 11
Bromomethane	ug/Kg			ND	14	ND 12	ND 18		ND 560	0 ND 11	ND 21	ND 6.6	ND 14	ND 11
Carbon Disulfide	ug/Kg			ND	14	ND 12	ND 18		ND 560		ND 21	ND 6.6	ND 14	ND 11
Carbon tetrachloride Chlorobenzene	ug/Kg ug/Kg	1,400 100,000	760 1,100	ND ND	14 14	ND 12 ND 12	ND 18 ND 18		ND 560 ND 560		ND 21 ND 21	ND 6.6 ND 6.6	ND 14 ND 14	ND 11 ND 11
Chloroethane	ug/Kg ug/Kg	100,000	1,100	ND	14	ND 12	ND 18		ND 560		ND 21	ND 6.6	ND 14	ND 11
Chloroform	ug/Kg	10,000	370	ND	14	ND 12	ND 18		ND 560		ND 21	ND 6.6	ND 14	ND 11
Chloromethane	ug/Kg			ND	14	ND 12	ND 18		ND 560		ND 21	ND 6.6	ND 14	ND 11
cis-1,2-Dichloroethene cis-1,3-Dichloropropene	ug/Kg ug/Kg	59,000	250	ND ND	14 14	ND 12 ND 12	ND 18 ND 18		ND 560 ND 560		ND 21 ND 21	ND 6.6 ND 6.6	ND 14 ND 14	ND 11 ND 11
Dibromochloromethane	ug/Kg ug/Kg			ND	8.5	ND 7.2	ND 11	ND 6.7	ND 340		ND 21	ND 0.0	ND 14	ND 6.7
Dibromomethane	ug/Kg			ND	14	ND 12	ND 18		ND 560	0 ND 11	ND 21	ND 6.6	ND 14	ND 11
Dichlorodifluoromethane	ug/Kg	00.000		ND	14	ND 12	ND 18		ND 560		ND 21	ND 6.6	ND 14	ND 11
Ethylbenzene Hexachlorobutadiene	ug/Kg ug/Kg	30,000	1,000	ND ND	14 14	ND 12 ND 12	ND 18 ND 18		4,500 560 ND 560		ND 21 ND 21	ND 6.6 ND 6.6	ND 14 ND 14	ND 11 ND 11
Isopropylbenzene	ug/Kg ug/Kg			ND	14	ND 12	ND 18				ND 21	ND 6.6	ND 14	ND 11
m&p-Xylene	ug/Kg			ND	14	ND 12	ND 18	B ND 1 <sup>2</sup>	ND 560	0 ND 11	ND 21	ND 6.6	ND 14	ND 11
Methyl Ethyl Ketone	ug/Kg	100,000	120	ND	85	ND 72			,		ND 120	ND 40	ND 81	ND 67
Methyl t-butyl ether (MTBE) Methylene chloride	ug/Kg ug/Kg	62,000 51,000	930 50	ND ND	28 14	ND 24 ND 12	ND 36 ND 18		ND 1,100 ND 560		ND 41 ND 21	ND 13 ND 6.6		ND 22 ND 11
Naphthalene	ug/Kg ug/Kg	01,000	50	ND	14	ND 12	ND 18				ND 21	ND 6.6	ND 14	ND 11
n-Butylbenzene	ug/Kg	100,000	12,000	ND	14	ND 12	ND 18	3 ND 330	2,900 560	ND 300	ND 21	ND 6.6	ND 14	ND 11
n-Propylbenzene	ug/Kg	100,000	3,900	ND	14	ND 12	ND 18				ND 21	ND 6.6	ND 14	ND 11
o-Xylene p-Isopropyltoluene	ug/Kg ug/Kg			ND ND	14 17	ND 12 ND 12	ND 18 ND 18		ND 560 1,500 560		ND 21 ND 21	ND 6.6 ND 6.6	ND 14 ND 14	ND 11 ND 11
sec-Butylbenzene	ug/Kg ug/Kg	100,000	11,000	ND	14	ND 12	ND 18				ND 21	ND 6.6	ND 14	ND 11
Styrene	ug/Kg			ND	14	ND 12	ND 18	8 ND 1'	ND 560	) ND 11	ND 21	ND 6.6	ND 14	ND 11
tert-Butylbenzene	ug/Kg	100,000	5,900	ND	14	ND 12	ND 18				ND 21	ND 6.6	ND 14	ND 11
Tetrachloroethene Tetrahydrofuran (THF)	ug/Kg	5,500	1,300	ND ND	14 29	ND 12 ND 24	ND 18 ND 36	3 2,400 330 5 ND 22			ND 21 ND 41	ND 6.6 ND 13	ND 14 ND 27	ND 11 ND 22
Toluene	ug/Kg ug/Kg	100,000	700	ND ND	28 14	ND 24 ND 12	ND 36 ND 18		ND 1,100 ND 560		ND 41 ND 21	ND 13 ND 6.6		ND 22 ND 11
Total Xylenes	ug/Kg		260	ND	14	ND 12	ND 18		ND 560		ND 21	ND 6.6		ND 11
trans-1,2-Dichloroethene	ug/Kg	100,000	190	ND	14	ND 12	ND 18	B ND 1 <sup>2</sup>	ND 560	) ND 11	ND 21	ND 6.6		ND 11
trans-1,3-Dichloropropene	ug/Kg				14	ND 12	ND 18		ND 560		ND 21	ND 6.6	ND 14	ND 11
trans-1,4-dichloro-2-butene Trichloroethene	ug/Kg ug/Kg	10,000	470	ND ND	28 14	ND 24 ND 12	ND 36 ND 18		ND 1,100 ND 560		ND 41 ND 21	ND 13 ND 6.6	ND 27 ND 14	ND 22 ND 11
Trichlorofluoromethane	ug/Kg ug/Kg	10,000	-110	ND	14	ND 12	ND 18		ND 560		ND 21	ND 6.6		ND 11
Trichlorotrifluoroethane	ug/Kg			ND	14	ND 12	ND 18	B ND 1 <sup>2</sup>	ND 560	) ND 11	ND 21	ND 6.6	ND 14	ND 11
Vinyl chloride	ug/Kg	210	20	ND	14	ND 12	ND 18	3 ND 1'	ND 560	) ND 11	ND 20	ND 6.6	ND 14	ND 11

RL Exceeds Criteria

Table 1 Soil Boring Results - VOCs

587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 (860) 645-1102

Lab Sample Id

BF45185

BF45186

BF45187

BF45188

BF45189

BF45190

BF45191

BF45192

BF45193

BF45194

BF45195 BF45196

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

\* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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#### 8260 Analysis:

There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference. Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

\* One of the surrogate recoveries was above the upper range due to sample matrix interference for the semivolatile analysis. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

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TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

Table 4Soil Boring Results - Pesticides and Herbicides

Phoenix Environmental Labs 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 (860) 645-1102 Project Id : LARCHMONT	Lab Sample Id Collection Date Client Id Matrix	<b>Track 2</b> Residential	<b>Track 1</b> Unrestricted	BF451 9/24/20 <b>B-1 (2-4</b> Soil	13 <b>FT)</b>	BF4518 9/24/20 <b>B-2 (6-8</b> Soil	13 <b>FT)</b>	BF4518 9/24/201 <b>B-3 (2-4</b> Soil	13 <b>FT)</b>	BF4518 9/24/207 <b>B-4 (1-3</b> Soil	13 <b>FT)</b>	BF45189 9/24/2013 <b>B-5 (5-7 F</b> Soil	3 <b>-T)</b>	BF45190 9/24/2013 <b>B-6 (1-3 F</b> Soil	3 <b>-T)</b>	BF4519 9/24/20 <b>B-7 (1-3</b> Soil	13 <b>FT)</b>	BF4519 9/24/20 <sup>-</sup> <b>B-8 (3-5</b> Soil	13 <b>FT)</b>	BF451 9/24/20 <b>B-9 (3-5</b> Soil	)13 F <b>T)</b>	BF451 9/24/20 <b>B-10 (3-</b> Soil	013 5 FT)
	Units	Use	Use	Result	RL	Result	RL	Result	RL	Result	RL	Result R	RL	Result F	RL	Result	RL	Result	RL	Result	RL	Result	RL
Pesticides By SW8081		0.000	0.0		0.0		0.4		0.0		0.4		0.0		<b>0</b> 4		7.0		0.0		0.0		0.0
4,4' -DDD	ug/Kg	2,600	3.3	ND	2.2	ND	2.4	ND	2.2	ND	2.4		2.2	ND	2.4	ND*	7.2	ND	2.2	ND	2.2	ND	2.2
4,4' -DDE	ug/Kg	1,800	3.3	ND	2.2	ND	2.4	ND	2.2	ND	2.4		2.2	ND	2.4	ND	2.7	ND	2.2	ND	2.2	ND	2.2
4,4' -DDT	ug/Kg	1,700	3.3	ND*	12	ND	2.4	ND	2.2	9.6	2.4		2.2	ND	2.4	ND*	7.5		2.2	ND	2.2	ND	2.2
a-BHC	ug/Kg	97	20	ND	3.6	ND	3.8	ND	3.6	ND	3.9	ND	3.6	ND	3.8	ND	3.6		3.5	ND	3.6	ND	3.4
Alachlor	ug/Kg		_	ND	3.6	ND	3.8	ND	3.6	ND	3.9		3.6	ND	3.8	ND	3.6		3.5	ND	3.6	ND	3.4
Aldrin	ug/Kg	19	5	ND	1.1	ND	1.2	ND	1.1	ND	1.2	ND	1.1	ND	1.2	ND	1.1	ND	1.1	ND	1.1	ND	1.1
b-BHC	ug/Kg	72	36	ND	3.6	ND	3.8	ND	3.6	ND	3.9	ND	3.6	ND	3.8	ND	3.6		3.5	ND	3.6	ND	3.4
Chlordane	ug/Kg			ND	11	ND	12	ND	11	ND	12	290	11	ND	12	ND	11	ND	11	53	11	ND	11
d-BHC	ug/Kg	100,000	40	ND	3.6	ND	3.8	ND	3.6	ND	3.9	ND	3.6	ND	3.8	ND	3.6		3.5	ND	3.6	ND	3.4
Dieldrin	ug/Kg	39	5	ND	1.9	ND	1.2	ND	1.1	ND	1.2	ND	1.1	ND	4	ND*	9	ND	1.1	ND	1.1	ND	1.1
Endosulfan I	ug/Kg	4,800	2,400	ND	3.6	ND	3.8	ND	3.6	ND	3.9	ND	3.6	ND	3.8	ND	3.6	ND	3.5	ND	3.6	ND	3.4
Endosulfan II	ug/Kg	4,800	2,400	ND	7.2	ND	7.7	ND	7.2	ND	7.8	ND	7.2	ND	7.6	ND	7.2	ND	7.1	ND	7.2	ND	6.9
Endosulfan sulfate	ug/Kg	4,800	2,400	ND	7.2	ND	7.7	ND	7.2	ND	7.8	ND	7.2	ND	7.6	ND	7.2	ND	7.1	ND	7.2	ND	6.9
Endrin	ug/Kg	2,200	14	ND	11	ND	7.7	ND	7.2	ND	7.8	ND	7.2	ND	7.6	ND	7.2	ND	7.1	ND	7.2	ND	6.9
Endrin aldehyde	ug/Kg			ND	7.2	ND	7.7	ND	7.2	ND	7.8	ND	7.2	ND	7.6	ND	7.2	ND	7.1	ND	7.2	ND	6.9
Endrin ketone	ug/Kg			ND	7.2	ND	7.7	ND	7.2	ND	7.8	ND	7.2	ND	7.6	ND	7.2	ND	7.1	ND	7.2	ND	6.9
g-BHC	ug/Kg	280	100	ND	1.1	ND	1.2	ND	1.1	ND	1.2	ND	1.1	ND	1.2	ND	1.1	ND	1.1	ND	1.1	ND	1.1
Heptachlor	ug/Kg	420	42	ND	2.2	ND	2.4	ND	2.2	ND	2.4	ND	2.2	ND	2.4	ND	2.2	ND	2.2	ND	2.2	ND	2.2
Heptachlor epoxide	ug/Kg			ND	3.6	ND	3.8	ND	3.6	ND	3.9	ND	3.6	ND	3.8	ND	3.6	ND	3.5	ND	3.6	ND	3.4
Methoxychlor	ug/Kg			ND	45	ND	38	ND	36	ND	39	ND	36	ND	38	ND	36	ND	35	ND	36	ND	34
Toxaphene	ug/Kg			ND	36	ND	38	ND	36	ND	39	ND	36	ND	38	ND	36	ND	35	ND	36	ND	34
Chlorinated Herbicides By SW8151	1																						
2,4,5-T	ug/Kg			ND	47	ND	51	ND	47	ND	51	ND	46	ND	50	ND	47	ND	47	ND	47	ND	46
2,4,5-TP (Silvex)	ug/Kg	58,000	3,800	ND	יד 17	ND	51	ND	<u>4</u> 7	ND	51	ND	46	ND	50	ND	47	ND	47	ND	47	ND	46
2,4,0 TF (Silvex) 2,4-D	ug/Kg	50,000	5,000	ND	יד 17	ND	51	ND	47	ND	51	ND	40	ND	50	ND	47		47	ND	47		46
2,4-D 2,4-DB	ug/Kg			ND	470		510		470	ND	510		460		500	ND	470		470		470	ND	460
Z,4-DB Dalapon	ug/Kg			ND	470	ND	510	ND	17	ND	510	ND	400	ND	500	ND	470	ND	10	ND	470	ND	16
Dicamba				ND	47 94	ND	100	ND	Ω1	ND	100	ND	40	ND	99	ND	47 Q/	ND	47 Q/	ND	47 Q/	ND	40 92
Dicamba	ug/Kg			ND ND	94 47	ND	51	ND	94 17	ND	100 51	ND	92	ND	99 50		94 17	ND ND	94 17	ND	94 17	ND	
Dinoseb	ug/Kg ug/Kg			ND	47 94	ND	100	ND	47 04	ND	100	ND	40	ND	99	ND ND	47 07	ND	47 07	ND	47 07	ND	46 92
	uy/Ny				54	שמ	100	טא	94	שא	100	טא	IJΖ	טא	33	שא	94	שא	94	טא	94		IJΖ

RL Exceeds Criteria

Result Exceeds Criteria

587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 (860) 645-1102

Lab Sample Id

BF45185

BF45186

BF45187

BF45188

BF45189

BF45190

BF45191

BF45192

BF45193

BF45194

BF45195 BF45196

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#### 8260 Analysis:

There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

\* Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the semivolatile analysis.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

\* Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the semivolatile analysis.

\* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

# TABLE 5 Groundwater Sampling Data - VOCs

587 East Middle Turnpike	Leb Ormala L			200		000		04
P.O. Box 370 Manchester, CT 06040	Lab Sample Id Collection Date		BF458 9/25/2		BF458 9/25/20		BF458 9/25/20	
(860) 645-1102	Client Id		5/23/2		5/25/2		5/25/20	
	Matrix		Ground		Ground		Groundv	
Project Id : LARCHMONT	Units	TOGS-WQ/GA	Result	RL	Result	RL	Result	RL
Volatiles By SW8260								
1,1,1,2-Tetrachloroethane	ug/L	5	ND	1	ND	1	ND	1
1,1,1-Trichloroethane	ug/L	5	ND	1	ND	1	ND	1
1,1,2,2-Tetrachloroethane	ug/L	5	ND	0.5	ND	0.5		0.5
1,1,2-Trichloroethane	ug/L	1	ND	1	ND	1	ND	1
1,1-Dichloroethane 1,1-Dichloroethene	ug/L ug/L	5 5	ND ND	1	ND ND	1	ND ND	1
1,1-Dichloropropene	ug/L	5	ND	1	ND	1	ND	1
1,2,3-Trichlorobenzene	ug/L	Ũ	ND	1	ND	1	ND	1
1,2,3-Trichloropropane	ug/L	0.04	ND	1	ND	1	ND	1
1,2,4-Trichlorobenzene	ug/L		ND	1	ND	1	ND	1
1,2,4-Trimethylbenzene	ug/L	5	9.2	1	ND	1	ND	1
1,2-Dibromo-3-chloropropane	ug/L	0.04	ND	1	ND	1	ND	1
1,2-Dibromoethane	ug/L	0.0006	ND	1	ND	1	ND	1
1,2-Dichlorobenzene 1,2-Dichloroethane	ug/L ug/L	0.6	ND ND	0.6	ND ND	0.6	ND ND	0.6
1,2-Dichloropropane	ug/L	1	ND	0.0	ND	0.0	ND	0.0
1,3,5-Trimethylbenzene	ug/L	5	5.8	1	ND	1	ND	1
1,3-Dichlorobenzene	ug/L	3	ND	1	ND	1	ND	1
1,3-Dichloropropane	ug/L	5	ND	1	ND	1	ND	1
1,4-Dichlorobenzene	ug/L		ND	1	ND	1	ND	1
2,2-Dichloropropane	ug/L	5	ND	1	ND	1	ND	1
2-Chlorotoluene	ug/L	5	ND	1 5	ND	1	ND	1
2-Hexanone	ug/L	50 F	ND	5	ND ND	5 1	ND ND	5
2-Isopropyltoluene 4-Chlorotoluene	ug/L ug/L	5	ND	1	ND ND	1	ND ND	1
4-Methyl-2-pentanone	ug/L	5	ND	5	ND	5		5
Acetone	ug/L	50	ND	25	ND	25		25
Acrylonitrile	ug/L	5	ND	5	ND	5		5
Benzene	ug/L	1	ND	0.7	ND	0.7	ND	0.7
Bromobenzene	ug/L	5	ND	1	ND	1	ND	1
Bromochloromethane	ug/L	5	ND	1	ND	1	ND	1
Bromodichloromethane	ug/L	50	ND	0.5	ND	0.5		0.5
Bromoform Bromomethane	ug/L	50 5	ND ND	1	ND ND	1	ND ND	1
Carbon Disulfide	ug/L ug/L	5	ND	5	ND	5	ND	ו 5
Carbon tetrachloride	ug/L	5	ND	1	ND	1	ND	1
Chlorobenzene	ug/L	5	ND	1	ND	1	ND	1
Chloroethane	ug/L	5	ND	1	ND	1	ND	1
Chloroform	ug/L	7	ND	1	ND	1	ND	1
Chloromethane	ug/L	5	ND	1	ND	1	ND	1
cis-1,2-Dichloroethene	ug/L	5	ND	1	ND	1	2.8	1
cis-1,3-Dichloropropene Dibromochloromethane	ug/L	0.4 50	ND ND	0.5	ND ND	0.5 0.5		0.5 0.5
Dibromomethane	ug/L ug/L	50	ND	0.5 1	ND	0.5	ND	0.0
Dichlorodifluoromethane	ug/L	5	ND	1	ND	1	ND	-
Ethylbenzene	ug/L	5	5.8	1	ND	1	ND	1
Hexachlorobutadiene	ug/L	0.5	ND	0.4	ND	0.4		0.4
lsopropylbenzene	ug/L	5	4.7	1	ND	1	ND	1
m&p-Xylene	ug/L		ND	1	ND	1	ND	1
Methyl ethyl ketone	ug/L	50	ND	5	ND	5	ND	5
Methyl t-butyl ether (MTBE)	ug/L	<b>-</b>	ND	1	ND	1	ND	1
Methylene chloride	ug/L	5 <b>10</b>	ND <b>29</b>	1	ND ND	1	ND ND	1
Naphthalene n-Butylbenzene	ug/L ug/L	5	3	1	ND	1	ND	
n-Propylbenzene	ug/L	5	<b>6.5</b>	1	ND	1	ND	-
p-Xylene	ug/L	5	ND	1	ND	1	ND	
p-Isopropyltoluene	ug/L	5	1.6	1	ND	1	ND	
sec-Butylbenzene	ug/L	5	5	1	ND	1	ND	
Styrene	ug/L	5	ND	1	ND	1	ND	
ert-Butylbenzene	ug/L	5	ND	1	ND	1	ND	1
Tetrachloroethene	ug/L	5	ND	1	ND	1	23	1
Tetrahydrofuran (THF)	ug/L	50 5	ND	2.5		2.5		2.5
Toluene Total Xylenes	ug/L	5 5	ND ND	1	ND ND	1	ND ND	
rans-1,2-Dichloroethene	ug/L ug/L	5 5	ND ND	1	ND ND	1	ND ND	
trans-1,3-Dichloropropene	ug/L	0.4	ND	0.5	ND	0.5		0.5
trans-1,4-dichloro-2-butene	ug/L	5	ND	5.5	ND	5	ND	
Trichloroethene	ug/L	5	ND	1	ND	1	2.3	1
Trichlorofluoromethane	ug/L	5	ND	1	ND	1	ND	1
Trichlorotrifluoroethane	ug/L	5	ND	1	ND	1	ND	1
Vinyl chloride	ug/L	2	ND	1	ND	1	ND	1

RL Exceeds Criteria

Result Exceeds Criteria

587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 (860) 645-1102

Lab Sample Id

BF45881

BF45882

BF45883

BF45884

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

\* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine. TRIP BLANK INCLUDED

# TABLE 6 Groundwater Sampling Data - SVOCs

Ácenaphthene         ugiL         20         2.8         0.05         ND         0.033         ND         0.00           Benz(a)phthene         ugiL         0.02         0.02         ND         0.03         ND         0.02           Benz(a)phthene         ugiL         0.02         ND         0.05         ND         0.05         ND         0.05           Benz(b)(parathene         ugiL         0.02         ND         0.05         N	Phoenix Environmental Labs								
Matrix         Coleration Date         PG22/013									
Clear 12Clear 13Clear 14Clear		•							
Matrix         Ground-witz         Ground-witz         Ground-witz         Ground-witz         Result         Result <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	-								
Project M: LARCHMONTUnixTOG>-WOGAResultRelutRelutNeRelutNe <t< td=""><td>(860) 645-1102</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	(860) 645-1102								
Units         TOGS-WOGA         Result         R.         Result         R         Result         Result <t< td=""><td></td><td>Matrix</td><td></td><td>Ground</td><td>water</td><td>Ground</td><td>water</td><td>Ground</td><td>water</td></t<>		Matrix		Ground	water	Ground	water	Ground	water
Semioalise By SWE270 (SIM) 24.6 Transholomazene WgL 20             2.8             0.65             ND             0.7             0.67	Project Id : LARCHMONT	Units	TOGS-WQ/GA	Result	RL	Result	RL	Result	RL
12.4.5-Termchicobenzene         ug/L         ND         1.6         ND         1.7         ND         0.00           Acenaphtingene         ug/L         0.02         0.08         ND         0.033         ND         0.06           Benzolphilprene         ug/L         0.002         0.007         0.04         ND         0.025         ND         0.035         ND         0.06           Benzolphilprane         ug/L         0.002         ND         0.06         ND         0.05         ND         0.06         ND         0.05         ND         0.06         ND         0.05         ND         0.06         ND         0.05         ND         0.06         ND	Semivolatiles Bv SW8270 (SIM)								
Acenaghthreine         ug/L         20         2.8         0.05         ND         0.035         ND         0.05           Benz(s)aptrance         ug/L         0.02         0.07         0.04         ND         0.06           Benz(s)aptrance         ug/L         0.02         ND         0.05         ND         0.06           Benz(s)aptrance         ug/L         0.02         ND         0.05         ND         0.07           Benz(s)aptrance         ug/L         0.02         ND         0.05         ND         0.07           Benz(s)aptrance         ug/L         0.02         ND         0.06         ND         0.07           Benz(s)aptrance         ug/L         0.04         ND         0.06         ND         0.07           Benz(s)aptrance         ug/L         0.04         ND         0.06         ND         0.06         ND         0.06           Benz(s)aptrance         ug/L         0.02         ND         0.01         ND         0.02         ND         0.02           Benz(s)aptrance         ug/L         0.02         ND         0.03         ND         0.04         ND         0.04         ND         0.04         ND         0.04		ug/L		ND	1.6	ND	1.7	ND	1.6
Banc (a) symmetricene         ug/L         0.02/2         0.07/2         0.03/2         ND         0.03/2         ND         0.00/2           Banc (a) symmetricene         ug/L         0.00/2         ND         0.05         ND         0.05           Banc (a) symmetricene         ug/L         0.00/2         ND         0.05         ND         0.05           Banc (a) symmetricene         ug/L         0.00/2         ND         0.05         ND         0.06           Banc (a) symmetricene         ug/L         0.00/2         0.06         ND         0.07         ND         0.07           Breach (a) symmetricene         ug/L         0.01/2         ND         0.06         ND         0.06         ND         0.07           Breach (a) symmetricene         ug/L         0.01/2         ND         0.08         ND         0.03         ND         0.08           Breach (a) symmetricene         ug/L         0.01/2         ND         0.05         ND         0.03         ND         0.06           Breach (a) symmetricene         ug/L         50         ND         0.5         ND         0.5         ND         0.5         ND         0.5         ND         0.5         ND         0.5 </td <td></td> <td>-</td> <td>20</td> <td>2.8</td> <td>0.05</td> <td>ND</td> <td></td> <td></td> <td>0.05</td>		-	20	2.8	0.05	ND			0.05
Benzojskypene         ug/L         ND         0.05         ND         0.053         ND         0.063           Benzojskypene         ug/L         0.002         ND         0.002         ND         0.002           Benzojskypene         ug/L         0.002         ND         0.005         ND         0.005           Benzojskypene         ug/L         0.006         0.005         ND         0.005         ND         0.005           Benzojskypene         ug/L         0.006         0.005         ND         0.005         ND         0.005           Bia/2-sthypenyjpene         ug/L         0.004         ND         0.005		-		0.58	0.05	ND	0.053	ND	0.05
Bencol:         Unit         Unit <thunit< th="">         Unit         Unit         &lt;</thunit<>	Benz(a)anthracene	ug/L	0.002	0.07	0.04	ND	0.042	ND	0.04
Benzolchipperviene         ugil.         ND         3         ND         3.2         ND         0.02           Benzolchipperviene         ugil.         5         ND         0.66         ND         0.053         ND         0.65           Bid2-chippene         ugil.         0.002         0.066         ND         0.051         ND         0.01           Bid2-chippene         ugil.         0.04         ND         0.051         ND         0.051 <td>Benzo(a)pyrene</td> <td>ug/L</td> <td></td> <td>ND</td> <td>0.05</td> <td>ND</td> <td>0.053</td> <td>ND</td> <td>0.05</td>	Benzo(a)pyrene	ug/L		ND	0.05	ND	0.053	ND	0.05
Benzel(thoranithene         upl.         0.002         ND         0.05         ND         0.063         ND         0.063           Belz-attylkov/phthalise         upl.         0.002         0.06         0.05         ND         0.083         ND         0.083           Belz-attylkov/phthalise         upl.         0.04         ND         0.06         ND         0.083         ND         0.083           Hexachlorotherzene         upl.         0.04         ND         0.05         ND         0.25         ND         0.065         ND         0.065         ND         0.065         ND         0.065         ND         0.065         ND         0.065         ND         0.05         ND         0.0	Benzo(b)fluoranthene	ug/L	0.002	ND	0.05	ND	0.053	ND	0.05
Big 2-ethylexyliphthalate         ug/L         5         ND         1.6         ND         1.7         ND         0.6           Diber (A) janthracene         ug/L         0.005         ND         0.065         ND         0.065         ND         0.07           Hoxachloroberzene         ug/L         0.04         ND         0.05         ND         0.05         ND         0.05         ND         0.05         ND         0.05         ND         0.06         ND         0.05         ND         0.06         ND         0.05         ND         <	Benzo(ghi)perylene	ug/L		ND	3	ND	3.2	ND	3
Chrysene         ugL         0.002         0.05         ND         0.053         ND         0.063           Hosachforobenzene         ugL         0.04         ND         0.06         ND         0.06           Hosachforobenzene         ugL         0.04         ND         0.05         ND         0.24           Pentachforonicherzene         ugL         0.022         ND         0.24         ND         0.05           Pentachforonicherzene         ugL         1         ND         0.65         ND         0.83         ND         0.65           Pentachforonicherzene         ugL         50         ND         0.5         ND         0.53         ND         0.5           Semivolatilies By SW220         UgL         ND         5         ND         5.3         ND         5.5         ND         5.3         ND         5.5         ND         5.3         ND         5.2         2.4         5.1         ND         5.0	Benzo(k)fluoranthene	ug/L	0.002	ND	0.05	ND	0.053	ND	0.05
Disbrig (A) handhracene         ug/L         ND         0.01         ND         0.01         ND         0.01           Hosachbronethane         ug/L         5         ND         2.4         ND         0.63         ND         0.24           Hosachbronethane         ug/L         0.00         ND         0.05         ND         0.05         ND         0.05         ND         0.04         ND         0.05         ND <td>Bis(2-ethylhexyl)phthalate</td> <td>ug/L</td> <td>5</td> <td>ND</td> <td></td> <td>ND</td> <td>1.7</td> <td></td> <td>1.6</td>	Bis(2-ethylhexyl)phthalate	ug/L	5	ND		ND	1.7		1.6
Hexachinorbenzene         ug/L         0.04         ND         0.06         ND         0.068           Pertachinorbenzene         ug/L         0.002         ND         0.05         ND         0.065           Pentachinorbenzene         ug/L         1         ND         0.05         ND         0.053         ND         0.065           Pentachinorbenzene         ug/L         50         ND         0.53         ND         0.53         ND         0.55           Pyrdine         ug/L         50         ND         5.3         ND         5.53         ND	Chrysene	ug/L	0.002	0.06	0.05	ND	0.053	ND	0.05
Hoxachtoroethane         ug/L         5         ND         2.4         ND         2.6         ND         0.053         ND         0.065         ND         0.055         ND         0.055         ND         0.056         ND         0.057         ND         0.53         ND         0.057         ND         5.53         ND         0.057         ND         5.53		ug/L		ND				ND	0.01
Indemot 2.3-adpyrene         ug/L         0.002         ND         0.003         ND         0.005         ND         0.001         ND         0.011         ND <td></td> <td></td> <td>0.04</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.06</td>			0.04						0.06
Pentachioronitrobenzene         ug/L         Ind         ND         0.1         ND         0.11         ND         0.68         ND         0.084         ND         0.06           Pentachiorophrenel         ug/L         50         ND         0.55         ND         0.053         ND         0.05           Semivolatiles By SW270         V         50         ND         5         ND         5.3         ND         5.3           1.2-Diphanyhybrazina         ug/L         3         ND         5         ND         5.3         ND         5.2           1.2-Diphanyhybrazina         ug/L         1         ND         5         ND         5.3         ND         5           2.4-S Trichotophenol         ug/L         1         ND         10         ND         11         ND         12         12         11         ND         12		-	-						2.4
Pentanthrone         ug/L         1         ND         0.8         ND         0.83         ND         0.005           Pyndine         ug/L         50         ND         0.05         ND         0.05           Pyndine         ug/L         50         ND         0.5         ND         0.53         ND         0.05           1_2.0thorbyndynamic         ug/L         ND         5         ND         5.3         ND         5.3         ND         5.2           1_2.0thorbyndynamic         ug/L         1         ND         5         ND         5.3         ND         5.2         ND         5.3         ND         5.2         ND         5.3         ND         5.2         ND         5.0         ND         5.3         ND         5.2         A         7.5         ND         5.0         ND         5.3         ND         5.2         A         7.5         ND         5.0         ND         5.3         ND         5.2         A         7.5         ND         5.0         ND         5.3         ND         5.2         A         A         A         A         A         A         A         A         A         A         A         A<		-	0.002						0.05
Phenaminene         ug/L         50         7.2         0.05         ND         0.053         ND         0.06           Semivolatiles By SW8270         S0         ND         5.3         ND         5.3         ND         5.3           Semivolatiles By SW8270         Ug/L         S0         S         ND         5.3         ND         5.3         ND         5.3           1.2-Ubrinobenzene         ug/L         3         ND         5         ND         5.3         ND         5.3           1.2-Ubrinobenzene         ug/L         3         ND         5         ND         5.3         ND         6.3           2.4-Dichorophenol         ug/L         1         ND         10         ND         11         ND         10           2.4-Dichorophenol         ug/L         5         ND         5         ND         5.3         ND         6.2           2.4-Dintrophenol         ug/L         5         ND         5         ND         5.3         ND         6.2           2.4-Dintrophenol         ug/L         10         ND         50         ND         51         ND         52           2.4-Dintrophenol         ug/L         1									0.1
Pyrdine         ug/L         50         ND         0.5         ND         0.53         ND         0.53           12.4-Dichlorobenzene         ug/L         ND         5         ND         5.3         ND         5.3           1.2-Dichlorobenzene         ug/L         ND         5         ND         5.3         ND         5.3           1.2-Dichlorobenzene         ug/L         3         ND         5         ND         5.3         ND         5.2           2.4.5-Trichlorophenol         ug/L         1         ND         10         ND         11         ND         10           2.4-Dichlorobhenol         ug/L         1         ND         10         ND         11         ND         10           2.4-Dintrobhenol         ug/L         1         ND         10         ND         11         ND         10         ND         11         ND         10         ND         11         ND         10         ND         53         ND         53         ND         52         2-Dintrobulene         ug/L         10         ND         11         ND         10         ND         11         ND         10         ND         53         ND		-	-						0.8
Semicolities by SW0200         V         ND         S         ND         S.3         ND         S           1.2.4.Trichlorobenzene         ug/L         ND         S         ND         S.3         ND         S           1.2.Dephorobenzene         ug/L         3         ND         S         ND         S.3         ND         S           1.4.Deichlorobenzene         ug/L         1         ND         ND         ND         S.3         ND         S           2.4.5.Trichlorophenol         ug/L         1         ND         ND         ND         ND         S         ND         S.3         ND         S           2.4.Dehitorophenol         ug/L         5         ND         S         ND         S.3         ND         S           2.4-Dehitorophenol         ug/L         5         ND         S         ND         S.3         ND         S         Z         S         ND         S         ND         S.3         ND         S         Z         Z         Chinorobenzene         ug/L         1         ND         ND         ND         S         Z         Z         Chinorobenzene         ug/L         S         ND         S         ND		-							0.05
12.4-Trichlorobenzene         ug/L         ND         5         ND         5.3	· ·	ug/L	50	ND	0.5	ND	0.53	ND	0.5
12-Dichlorobenzene         ug/L         ND         5         ND         6.3         ND         6.3           1.3-Diphenyllyrizhene         ug/L         3         ND         5         ND         5.3         ND         5           1.4-Dichlorobenzene         ug/L         1         ND         5         ND         5.3         ND         5           2.4-Sinchlorophenol         ug/L         1         ND         10         ND         11         ND         10           2.4-Dichlorophenol         ug/L         5         ND         50         ND         53         ND         52           2.4-Dintrophenol         ug/L         5         ND         5         ND         53         ND         53         ND         52         2.4-Dintrophenol         ug/L         5         ND         53         ND	-				F		F 2		F
12-Diphenylhydrazine         ug/L         ND         5         ND         5.3         <		-			5				5 5
1.3-Dichlorobenzene         ug/L         3         ND         5         ND         5.3         ND         5           2.4.5-Trichlorophenol         ug/L         1         ND         10         ND         11         ND		-							
1.4-Dichlorobenzone         ug/L         ND         50         ND         53         ND         52           2.4.6-Trichlorophenol         ug/L         1         ND         10         ND         11         ND         10           2.4-Dichlorophenol         ug/L         1         ND         10         ND         11         ND         10           2.4-Dintrybphonol         ug/L         5         ND         50         ND         53         ND         52           2.4-Dintrybphonol         ug/L         5         ND         5         ND         53         ND         52           2.4-Dintrybphonol         ug/L         10         ND         53         ND         53         ND         52           2.4-Dintrybphonol         ug/L         1         ND         10         ND         53         ND         52           2.4-Dintrybphonol         ug/L         1         ND         10         ND         11         ND         11         ND         10         ND         11         ND         12         2.4-Dintrybnhoni         ug/L         5         ND         50         ND         53         ND         53         ND <td< td=""><td></td><td>-</td><td>2</td><td></td><td></td><td></td><td></td><td></td><td>5 5</td></td<>		-	2						5 5
2.4.5.Trichiorophenol         ug/L         1         ND         10         ND         11         ND         10           2.4.6.Trichiorophenol         ug/L         5         ND         10         ND         11         ND         10           2.4.Dintrophenol         ug/L         5         ND         50         ND         53         ND         52.2           2.4.Dintrophenol         ug/L         5         ND         5         ND         53         ND         52.2           2.4.Dintrophenol         ug/L         10         ND         53         ND         52.2         ND         5         ND         50         ND         53         ND         52.2         ND         50         ND         53         ND         52.2         ND         50         ND         53         ND         52.2         ND         50         ND         53         ND         50         ND         53         ND         52.2		-	3						
2.4.6-Trichiorophenol         ug/L         1         ND         10         ND         11         ND         10           2.4-Dinktryphenol         ug/L         1         ND         10         ND         11         ND         10           2.4-Dinktryphenol         ug/L         5         ND         50         ND         53         ND         52           2.4-Dinktroklene         ug/L         5         ND         5         ND         53         ND         52           2.4-Dinktroklene         ug/L         10         ND         53         ND         53         ND         52           2.4-Dinktroklene         ug/L         10         ND         50         ND         53         ND         52           2.4-Methylphenol         ug/L         1         ND         10         ND         11         ND         10           2.4-Methylphenol         ug/L         5         ND         50         ND         53         ND         50           2.4-Methylphenol         ug/L         5         ND         50         ND         53         ND         53           3.4-Mitroaniline         ug/L         5         ND	-	-	1						
2.4-Dinkhorophenol         ug/L         5         ND         10         ND         11         ND         11           2.4-Dinktryphenol         ug/L         5         ND         50         ND         53         ND         52           2.4-Dinktryphenol         ug/L         5         ND         5         ND         53         ND         52           2.4-Dinktryphenol         ug/L         5         ND         5         ND         5.3         ND         52           2.Chiotrophthalene         ug/L         10         ND         10         ND         53         ND         51           2.Methyphenol         ug/L         1         ND         10         ND         11         ND         10           2.Methyphenol         ug/L         5         ND         50         ND         53         ND         50           3.3-Dichorobenzidine         ug/L         5         ND         50         ND         53         ND         55           3.3-Dichorobenzidine         ug/L         1         ND         50         ND         53         ND         52           3.4-Dichyphenol         ug/L         1         ND									
2.4-Dimethylphenol         ug/L         1         ND         10         ND         51         ND         53         ND         55           2.4-Dimitrotoluene         ug/L         5         ND         5         ND         5.3         ND         52           2.4-Dimitrotoluene         ug/L         10         ND         5         ND         5.3         ND         52           2.4-Dimitrotoluene         ug/L         10         ND         5         ND         5.3         ND         52           2.Achtorophthalene         ug/L         1         ND         10         ND         11         ND         10           2.Methylphenol (c-cresol)         ug/L         1         ND         10         ND         11         ND         10           2.Nitrophenol         ug/L         5         ND         50         ND         53         ND         54         4-Dintro-armethylphenol         ug/L         5         ND </td <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		-	-						
2.4-Dinitroblene         ug/L         5         ND         50         ND         5.3         ND         52           2.4-Dinitrotoluene         ug/L         5         ND         5         ND         5.3         ND         52           2.6-Dinitrotoluene         ug/L         10         ND         5         ND         5.3         ND         52           2.Chiorophtnale         ug/L         1         ND         10         ND         11         ND         1	,	-							
2.4-Dinitrotoluene         ug/L         5         ND         5         ND         5.3         ND         5									
2.e-Dinitrotoluene         ug/L         5         ND         5         ND         5.3         ND         5.3           2-Chiorophthalene         ug/L         10         ND         5.3         ND         5.3           2-Chiorophthalene         ug/L         1         ND         10         ND         5.3         ND         5.2           2-Metrykphenol (o-cresol)         ug/L         1         ND         10         ND         511         ND         52           2-Nitrophenol         ug/L         5         ND         50         ND         53         ND         53           3-Witroanline         ug/L         5         ND         50         ND         53         ND         55           3-Nitroanline         ug/L         1         ND         50         ND         53         ND         52           4-Bromophenyl phenyl ether         ug/L         1         ND         50         ND         53         ND         52           4-Chioroanline         ug/L         5         ND         50         ND         53         ND         52           4-Nitroanline         ug/L         5         ND         50         ND <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5</td>									5
2-Chicronaphthalene         ug/L         10         ND         5         ND         5.3         ND         5.2           2-Chicrophenol         ug/L         1         ND         10         ND         5.3         ND         5.2           2-Metryliphenol (o-cresol)         ug/L         1         ND         10         ND         5.3         ND         5.5           2-Nitroaniline         ug/L         1         ND         10         ND         11         ND         10           3.4-Methylphenol (m&p-cresol)         ug/L         5         ND         50         ND         53         ND         53           3.Nitroaniline         ug/L         5         ND         50         ND         53         ND         52           4.Grointor-2-methylphenol         ug/L         1         ND         50         ND         53         ND         52           4.Chicro-3-methylphenol         ug/L         1         ND         50         ND         53         ND         52           4.Chicro-aniline         ug/L         5         ND         20         ND         53         ND         52           4.Nitroaniline         ug/L         5	-								5
2-Chicrophenol         ug/L         1         ND         10         ND         11         ND         10           2-Methylaphenol (o-cresol)         ug/L         1         ND         10         ND         11         ND         10           2-Nitrophenol         ug/L         5         ND         50         ND         53         ND         55           3&-Dichlorobenzidine         ug/L         5         ND         50         ND         53         ND         55           3.3-Dichlorobenzidine         ug/L         1         ND         50         ND         53         ND         55           3.3-Dichlorobenzidine         ug/L         1         ND         50         ND         53         ND         55           4.6-Dintro-2-methylphenol         ug/L         1         ND         20         ND         51         ND         52           4-Chicoro-3-methylphenol         ug/L         5         ND         20         ND         53         ND         52           4-Chicoro-3-methylphenol         ug/L         5         ND         50         ND         53         ND         52           4-Chicoro-3-methylphenol         ug/L	-								5
2-Methylphenol (o-cresol)         ug/L         1         ND         5.3         ND         5.3           2-Methylphenol (o-cresol)         ug/L         1         ND         10         ND         11         ND         10           2-Nitroaniline         ug/L         1         ND         10         ND         11         ND         10           3.3'-Dichlorobenzidine         ug/L         5         ND         50         ND         53         ND         55           4.6-Oinitro-2-methylphenol         ug/L         1         ND         50         ND         53         ND         55           4.6-Oinitro-2-methylphenol         ug/L         1         ND         20         ND         21         ND         24           4.6-Oinitro-2-methylphenol         ug/L         1         ND         20         ND         21         ND         22           4-Chioroaniline         ug/L         5         ND         20         ND         21         ND         22           4-Nitroaniline         ug/L         5         ND         20         ND         23         ND         24         ND         22           4-Nitroaniline         ug/L		ug/L							10
2-Methylphenol (o-cresol)         ug/L         1         ND         10         ND         11         ND         10           2-Nitropenol         ug/L         5         ND         50         ND         53         ND         50           3&-Untophenol         ug/L         5         ND         50         ND         53         ND         55           3.3-Dichorobenzidine         ug/L         5         ND         50         ND         53         ND         55           3.3-Dichorobenzidine         ug/L         1         ND         50         ND         53         ND         55           4.6-Dinitro-2-methylphenol         ug/L         1         ND         20         ND         21         ND         22           4-Chiorophenyl phenyl ether         ug/L         5         ND         20         ND         21         ND         22           4-Nitroaniline         ug/L         5         ND         50         ND         53         ND         22           4-Chiorophenyl phenyl ether         ug/L         1         ND         50         ND         53         ND         56           Anitrophenol         ug/L         50 <td></td> <td>ua/L</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5</td>		ua/L							5
2-Nitroamiline         ug/L         5         ND         50         ND         53         ND         50           2-Nitrophenol         ug/L         1         ND         10         ND         11         ND         10           3.3-Dichlorobenzidine         ug/L         5         ND         50         ND         53         ND         55           3-Nitroamiline         ug/L         1         ND         50         ND         53         ND         55           4-Bromophenyl phenol         ug/L         1         ND         50         ND         53         ND         52           4-Chioro-amethylphenol         ug/L         5         ND         20         ND         21         ND         52           4-Chioro-amethylphenol         ug/L         5         ND         20         ND         51         ND         52           4-Nitroaniline         ug/L         5         ND         20         ND         53         ND         52           4-Nitroaniline         ug/L         5         ND         50         ND         53         ND         52           4-Nitrophenol         ug/L         50         ND			1						10
2-Nitrophenol         ug/L         1         ND         10         ND         11         ND         11           3&4-Methylphenol (m&p-cresol)         ug/L         5         ND         50         ND         53         ND         55           3-Nitchirobenzidine         ug/L         5         ND         50         ND         53         ND         56           3-Nitroaniline         ug/L         1         ND         50         ND         53         ND         56           4-Bromophenyl phenyl ether         ug/L         1         ND         50         ND         21         ND         22           4-Chioro-3-methylphenol         ug/L         5         ND         20         ND         21         ND         22           4-Chiorophenyl phenyl ether         ug/L         5         ND         50         ND         53         ND         22           4-Nitrophenol         ug/L         5         ND         50         ND         53         ND         55           Anthracene         ug/L         50         ND         50         ND         53         ND         55           Benzidic chiorosiopropyliether         ug/L		-	5	ND	50	ND	53	ND	50
384-Methylphenol (m&p-cresol)         ug/L         S         ND         10         ND         11         ND         11           3,3-Dichorobenzidine         ug/L         5         ND         50         ND         53         ND         55           Al-Dinitro-2-methylphenol         ug/L         1         ND         50         ND         53         ND         55           4-Bromophenyl phenyl ether         ug/L         1         ND         20         ND         53         ND         52           4-Chloro-3-methylphenol         ug/L         5         ND         20         ND         21         ND         22           4-Chloro-anline         ug/L         5         ND         20         ND         51         ND         22           4-Nitroanline         ug/L         5         ND         20         ND         51         ND         52           Anitine         ug/L         5         ND         50         ND         51         ND         53         ND         55           Benziciacid         ug/L         5         ND         50         ND         53         ND         55           Benziciacid         ug/									10
3.3*Dichlorobenzidine         ug/L         5         ND         50         ND         53         ND         56           3-Nitroaniline         ug/L         1         ND         50         ND         53         ND         55           4-Brointor-2-methylphenol         ug/L         1         ND         50         ND         53         ND         22           4-Chioro-3-methylphenol         ug/L         5         ND         20         ND         21         ND         22           4-Chioroanitine         ug/L         5         ND         20         ND         5.3         ND         22           4-Chioroanitine         ug/L         5         ND         20         ND         5.3         ND         52           4-Nitrophenol         ug/L         1         ND         50         ND         53         ND	3&4-Methylphenol (m&p-cresol)	-		ND	10	ND	11	ND	10
4.6-Dinitro-2-methylphenol         ug/L         1         ND         50         ND         53         ND         50           4-Bromophenyl phenyl ether         ug/L         1         ND         50         ND         53         ND         52           4-Chloro-amethylphenol         ug/L         5         ND         20         ND         21         ND         22           4-Chloro-amethylphenol         ug/L         5         ND         20         ND         21         ND         22           4-Nitrophenyl phenyl ether         ug/L         1         ND         50         ND         53         ND         52           4-Nitrophenol         ug/L         1         ND         50         ND         53         ND         53           Anthracene         ug/L         50         ND         50         ND         53         ND         56           Benzidine         ug/L         50         ND         50         ND         53         ND         56           Benzidine         ug/L         50         ND         53         ND         53         ND         56           Benzidine         ug/L         50         ND <td>3,3'-Dichlorobenzidine</td> <td>ug/L</td> <td>5</td> <td>ND</td> <td>50</td> <td>ND</td> <td>53</td> <td>ND</td> <td>50</td>	3,3'-Dichlorobenzidine	ug/L	5	ND	50	ND	53	ND	50
4-Bromophenyl phenyl ether         ug/L         ND         5         ND         5.3         ND         5           4-Chloro-3-methylphenol         ug/L         1         ND         20         ND         21         ND         20           4-Chlorophenyl phenyl ether         ug/L         5         ND         20         ND         53         ND         21           4-Nitrophenol         ug/L         5         ND         50         ND         53         ND         53           A-Nitrophenol         ug/L         1         ND         50         ND         53         ND         55           A-citophenone         ug/L         5         ND         50         ND         53         ND         55           Anthracene         ug/L         5         ND         50         ND         53         ND         55           Benzoic acid         ug/L         5         ND         50         ND         53         ND         55           Bis(2-chloroethox)/methane         ug/L         5         ND         53         ND         55           Bis(2-chloroethox)/methane         ug/L         1         ND         5         ND	3-Nitroaniline	ug/L	5	ND	50	ND	53	ND	50
4-Chloro-3-methylphenol       ug/L       1       ND       20       ND       21       ND       22         4-Chlorophenyl phenyl ether       ug/L       5       ND       20       ND       53       ND       26         4-Nitroaniline       ug/L       5       ND       50       ND       53       ND       52         4-Nitrophenol       ug/L       1       ND       50       ND       53       ND       56         Acetophenone       ug/L       5       ND       10       ND       51       ND       53       ND       56         Antine       ug/L       50       ND       50       ND       53       ND       56         Anthracene       ug/L       50       ND       50       ND       53       ND       50         Benzoic acid       ug/L       50       ND       50       ND       53       ND       55         Bis(2-chloroethyl)ether       ug/L       1       ND       5       ND       5.3       ND       55         Bis(2-chloroethyl)nethare       ug/L       1       ND       5       ND       5.3       ND       55         Bis(2-chlor	4,6-Dinitro-2-methylphenol	ug/L	1	ND	50	ND	53	ND	50
4-Chloroaniline         ug/L         5         ND         20         ND         21         ND         22           4-Chlorophenyl phenyl ether         ug/L         5         ND         53         ND         52           4-Nitroaniline         ug/L         1         ND         50         ND         53         ND         52           4-Nitroaniline         ug/L         1         ND         50         ND         53         ND         56           Aniline         ug/L         5         ND         10         ND         51         ND         56           Anthracene         ug/L         50         ND         50         ND         53         ND         50           Benzidine         ug/L         50         ND         50         ND         53         ND         50           Benzidine         ug/L         50         ND         50         ND         53         ND         50           Benzidine         ug/L         1         ND         5         ND         53         ND         50           Benzidine         ug/L         50         ND         5         ND         5.3         ND	4-Bromophenyl phenyl ether			ND	5	ND	5.3	ND	5
4-Chlorophenyl phenyl ether       ug/L       S       ND       5       ND       5.3       ND       26         4-Nitrophenol       ug/L       1       ND       50       ND       53       ND       55         A-Nitrophenol       ug/L       1       ND       50       ND       53       ND       55         Acetophenone       ug/L       5       ND       10       ND       11       ND       10         Aniline       ug/L       50       ND       5       ND       53       ND       50         Anthracene       ug/L       50       ND       50       ND       53       ND       50         Benzolic acid       ug/L       5       ND       50       ND       53       ND       50         Bis(2-chloroethoxy)methae       ug/L       50       ND       5       ND       5.3       ND       55         Bis(2-chloroethoxy)methae       ug/L       1       ND       5       ND       5.3       ND       55         Discopropyl)ether       ug/L       1       ND       5       ND       5.3       ND       55         Dibenzofuran       ug/L       50<	4-Chloro-3-methylphenol	ug/L	1	ND	20	ND	21	ND	20
4-Nitroaniline         ug/L         5         ND         20         ND         21         ND         20           4-Nitrophenol         ug/L         1         ND         50         ND         53         ND         56           Acetophenone         ug/L         5         ND         10         ND         51.3         ND         56           Aniline         ug/L         50         ND         50         ND         51.3         ND         56           Benzidine         ug/L         50         ND         50         ND         53         ND         56           Benzidine         ug/L         50         ND         50         ND         5.3         ND         56           Benzidine         ug/L         50         ND         5         ND         5.3         ND         56           Benzidine         ug/L         1         ND         5         ND         5.3         ND         56           Benzidine         ug/L         1         ND         5         ND         5.3         ND         55           Bis(2-chloroisopropyl)ether         ug/L         1         ND         5         ND	4-Chloroaniline	ug/L	5	ND	20	ND		ND	20
4-Nitrophenol       ug/L       1       ND       50       ND       53       ND       50         Acetophenone       ug/L       5       ND       10       ND       51       ND       53       ND       55         Aniline       ug/L       50       ND       50       ND       53       ND       55         Benzidine       ug/L       50       ND       50       ND       53       ND       55         Benzoic acid       ug/L       50       ND       50       ND       53       ND       55         Benzyl butyl phthalate       ug/L       50       ND       5       ND       5.3       ND       55         Bis(2-chloroethyl)ether       ug/L       1       ND       5       ND       5.3       ND       55         Bis(2-chloroethyl)ether       ug/L       1       ND       5       ND       5.3       ND       55         Dibenzofuran       ug/L       50       ND       5       ND       5.3       ND       55         Dirn-butylphthalate       ug/L       50       ND       5       ND       5.3       ND       55         Din-noctylphthalate </td <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5</td>		-							5
Acetophenone         ug/L         ND         5         ND         5.3         ND         5.5           Aniline         ug/L         50         ND         10         ND         11         ND         10           Anthracene         ug/L         50         ND         50         ND         53         ND         50           Benzidine         ug/L         50         ND         50         ND         53         ND         50           Benzidine         ug/L         50         ND         50         ND         53         ND         50           Benzyl butyl phthalate         ug/L         50         ND         53         ND         53         ND         55           Bis(2-chloroethoxy)methane         ug/L         1         ND         5         ND         5.3         ND         55           Bis(2-chloroisopropyl)ether         ug/L         1         ND         5         ND         5.3         ND         55           Dibenzofuran         ug/L         50         ND         5.3         ND         55         ND         5.3         ND         55           Di-n-butylphthalate         ug/L         50 <t< td=""><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td>20</td></t<>		-							20
Aniline         ug/L         5         ND         10         ND         11         ND         110           Anthracene         ug/L         50         ND         5         ND         5.3         ND         55           Benzidine         ug/L         50         ND         50         ND         53         ND         55           Benzoic acid         ug/L         50         ND         50         ND         53         ND         55           Benzyl butyl phthalate         ug/L         50         ND         5         ND         5.3         ND         55           Bis(2-chloroethoxy)methane         ug/L         1         ND         5         ND         5.3         ND         55           Bis(2-chlorosiopropyl)ether         ug/L         1         ND         5         ND         5.3         ND         55           Carbazole         ug/L         ND         5         ND         5.3         ND         55           Dienzofuran         ug/L         50         ND         5         ND         5.3         ND         55           Di-n-otylphthalate         ug/L         50         ND         5         ND </td <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>50</td>			1						50
Anthracene         ug/L         50         ND         5         ND         5.3         ND         5           Benzidine         ug/L         5         ND         50         ND         53         ND         50           Benzyl butyl phthalate         ug/L         50         ND         53         ND         53         ND         53           Bis(2-chloroethoxy)methane         ug/L         5         ND         5         ND         5.3         ND         53           Bis(2-chloroethyl)ether         ug/L         1         ND         5         ND         5.3         ND         55           Bis(2-chloroethyl)ether         ug/L         1         ND         5         ND         5.3         ND         55           Dibenzofuran         ug/L         0         ND         5         ND         5.3         ND         55           Dien-octylphthalate         ug/L         50         ND         5         ND         5.3         ND         55           Di-n-octylphthalate         ug/L         50         ND         5         ND         5.3         ND         55           Fluorene         ug/L         50         ND									5
Benzidine         ug/L         5         ND         50         ND         53         ND         50           Benzoic acid         ug/L         50         ND         50         ND         53         ND         50           Benzyl butyl phthalate         ug/L         50         ND         5         ND         5.3         ND         55           Bis(2-chloroethxy)methane         ug/L         1         ND         5         ND         5.3         ND         55           Bis(2-chloroethyl)ether         ug/L         1         ND         5         ND         5.3         ND         55           Carbazole         ug/L         ND         5         ND         5.3         ND         55           Dibenzofuran         ug/L         50         ND         5         ND         5.3         ND         55           Din-butylphthalate         ug/L         50         ND         5         ND         5.3         ND         55           Di-n-butylphthalate         ug/L         50         ND         5         ND         5.3         ND         55           Din-noctylphthalate         ug/L         50         ND         5									10
Benzoic acid         ug/L         ND         50         ND         53         ND         50           Benzyl butyl phthalate         ug/L         50         ND         5         ND         5.3         ND         55           Bis(2-chloroethoxy)methane         ug/L         1         ND         5         ND         5.3         ND         55           Bis(2-chloroethoxy)methane         ug/L         1         ND         5         ND         5.3         ND         55           Bis(2-chloroisopropyl)ether         ug/L         1         ND         5         ND         5.3         ND         55           Dibenzofuran         ug/L         0         ND         5         ND         5.3         ND         55           Dientylphthalate         ug/L         50         ND         5         ND         5.3         ND         55           Din-butylphthalate         ug/L         50         ND         5         ND         5.3         ND         55           Fluoranthene         ug/L         50         ND         5         ND         5.3         ND         55           Fluoranthene         ug/L         50         ND									5
Benzyl butyl phthalate         ug/L         50         ND         5         ND         5.3         ND         5           Bis (2-chloroethoxy)methane         ug/L         1         ND         5         ND         5.3         ND         5           Bis (2-chloroethy)lether         ug/L         1         ND         5         ND         5.3         ND         5           Bis (2-chloroethy)lether         ug/L         1         ND         5         ND         5.3         ND         5           Carbazole         ug/L         ND         5         ND         5.3         ND         5           Dibenzofuran         ug/L         50         ND         5         ND         5.3         ND         5           Dien-butylphthalate         ug/L         50         ND         5         ND         5.3         ND         5           Di-n-butylphthalate         ug/L         50         ND         5         ND         5.3         ND         5           Di-n-butylphthalate         ug/L         50         ND         5         ND         5.3         ND         5           Fluoranthene         ug/L         50         ND         <			5						50
Bis(2-chloroethoxy)methane         ug/L         5         ND         5         ND         5.3         ND         5           Bis(2-chloroethyl)ether         ug/L         1         ND         5         ND         5.3         ND         5           Bis(2-chloroisopropyl)ether         ug/L         ND         5         ND         5.3         ND         5           Carbazole         ug/L         ND         5         ND         5.3         ND         5           Dibenzofuran         ug/L         50         ND         5         ND         5.3         ND         5           Diethyl phthalate         ug/L         50         ND         5         ND         5.3         ND         5           Din-butylphthalate         ug/L         50         ND         5         ND         5.3         ND         5           Di-n-octylphthalate         ug/L         50         ND         5         ND         5.3         ND         5           Fluoranthene         ug/L         50         ND         5         ND         5.3         ND         5           Fluoranthene         ug/L         0.5         ND         5         ND									50
Bis(2-chloroethyl)ether         ug/L         1         ND         5         ND         5.3         ND         5           Bis(2-chloroisopropyl)ether         ug/L         ND         5         ND         5.3         ND         5           Carbazole         ug/L         ND         5         ND         5.3         ND         5           Dibenzofuran         ug/L         S0         ND         5         ND         5.3         ND         5           Diethyl phthalate         ug/L         50         ND         5         ND         5.3         ND         5           Din-n-butylphthalate         ug/L         50         ND         5         ND         5.3         ND         5           Din-n-octylphthalate         ug/L         50         ND         5         ND         5.3         ND         5           Fluoranthene         ug/L         50         ND         5         ND         5.3         ND         5           Fluoranthene         ug/L         50         ND         5         ND         5.3         ND         5           Isophorone         ug/L         0.5         ND         5.3         ND <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5</td></t<>									5
Bis(2-chloroisopropyl)ether         ug/L         ND         5         ND         5.3         ND         5.3           Carbazole         ug/L         ND         5         ND         5.3         ND         5.3           Dibenzofuran         ug/L         ND         5         ND         5.3         ND         5.3           Diethyl phthalate         ug/L         50         ND         5         ND         5.3         ND         5           Dinethyl phthalate         ug/L         50         ND         5         ND         5.3         ND         5           Din-butylphthalate         ug/L         50         ND         5         ND         5.3         ND         5           Di-n-octylphthalate         ug/L         50         ND         5         ND         5.3         ND         5           Di-n-octylphthalate         ug/L         50         ND         5         ND         5.3         ND         5           Fluoranthene         ug/L         50         ND         5         ND         5.3         ND         5           Fluorene         ug/L         0.5         ND         5.3         ND         5.3		-							5
Carbazole         ug/L         ND         5         ND         5.3         ND         5.3           Dibenzofuran         ug/L         ND         5         ND         5.3         ND         5.3           Diethyl phthalate         ug/L         50         ND         5         ND         5.3         ND         5           Dimethyl phthalate         ug/L         50         ND         5         ND         5.3         ND         5           Din-butyl phthalate         ug/L         50         ND         5         ND         5.3         ND         5           Di-n-octyl phthalate         ug/L         50         ND         5         ND         5.3         ND         5           Di-n-octyl phthalate         ug/L         50         ND         5         ND         5.3         ND         5           Pioranthene         ug/L         50         ND         5         ND         5.3         ND         5           Fluoranthene         ug/L         0.5         ND         5         ND         5.3         ND         5           Fluoranthene         ug/L         0.5         ND         5.3         ND         5 <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5</td>			1						5
Dibenzofuran         ug/L         ND         5         ND         5.3         ND         5.3           Diethyl phthalate         ug/L         50         ND         5         ND         5.3         ND         5           Dimethyl phthalate         ug/L         50         ND         5         ND         5.3         ND         5           Din-butyl phthalate         ug/L         50         ND         5         ND         5.3         ND         5           Di-n-octyl phthalate         ug/L         50         ND         5         ND         5.3         ND         5           Pluoranthene         ug/L         50         ND         5         ND         5.3         ND         5           Fluorene         ug/L         50         ND         5         ND         5.3         ND         5           Hexachlorobutadiene         ug/L         0.5         ND         5         ND         5.3         ND         5           Isophorone         ug/L         50         ND         5         ND         5.3         ND         5           Naphthalene         ug/L         10         8.8         5         ND		-							5
Diethyl phthalate         ug/L         50         ND         5         ND         5.3         ND         5           Dimethylphthalate         ug/L         50         ND         5         ND         5.3         ND         5           Din-butylphthalate         ug/L         50         ND         5         ND         5.3         ND         5           Di-n-cutylphthalate         ug/L         50         ND         5         ND         5.3         ND         5           Fluoranthene         ug/L         50         ND         5         ND         5.3         ND         5           Fluorene         ug/L         50         ND         5         ND         5.3         ND         5           Hexachlorobutadiene         ug/L         50         ND         5         ND         5.3         ND         5           Isophorone         ug/L         0.5         ND         5         ND         5.3         ND         5           Naphthalene         ug/L         10         8.8         5         ND         5.3         ND         5           N-Nitrosodimethylamine         ug/L         0.4         ND         5 <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5</td>		-							5
Dimethylphthalate         ug/L         50         ND         5         ND         5.3         ND         55           Di-n-butylphthalate         ug/L         50         ND         5         ND         5.3         ND         55           Di-n-octylphthalate         ug/L         50         ND         5         ND         5.3         ND         55           Fluoranthene         ug/L         50         ND         5         ND         5.3         ND         55           Fluoranthene         ug/L         50         ND         5         ND         5.3         ND         55           Fluorene         ug/L         50         ND         5         ND         5.3         ND         55           Hexachlorobutadiene         ug/L         0.5         ND         5         ND         5.3         ND         55           Isophorone         ug/L         50         ND         5         ND         5.3         ND         55           Naphthalene         ug/L         10         8.8         5         ND         5.3         ND         55           N-Nitrosodimethylamine         ug/L         0.4         ND			50						5 5
Di-n-butylphthalate         ug/L         50         ND         5         ND         5.3         ND         55           Di-n-octylphthalate         ug/L         50         ND         5         ND         5.3         ND         55           Fluoranthene         ug/L         50         ND         5         ND         5.3         ND         55           Fluorene         ug/L         50         ND         5         ND         5.3         ND         55           Hexachlorobutadiene         ug/L         50         ND         5         ND         5.3         ND         55           Hexachlorocyclopentadiene         ug/L         50         ND         5         ND         5.3         ND         55           Isophorone         ug/L         50         ND         5         ND         5.3         ND         55           Naphthalene         ug/L         10         8.8         5         ND         5.3         ND         55           Nitrobenzene         ug/L         0.4         ND         5         ND         5.3         ND         55           N-Nitrosodimethylamine         ug/L         50         ND									5 5
Di-n-octylphthalate         ug/L         50         ND         5         ND         5.3         ND         55           Fluoranthene         ug/L         50         ND         5         ND         5.3         ND         55           Fluorene         ug/L         50         ND         5         ND         5.3         ND         55           Hexachlorobutadiene         ug/L         0.5         ND         5         ND         5.3         ND         55           Hexachlorocyclopentadiene         ug/L         5         ND         5         ND         5.3         ND         55           Isophorone         ug/L         50         ND         5         ND         5.3         ND         55           Naphthalene         ug/L         10         8.8         5         ND         5.3         ND         55           N-Nitrobenzene         ug/L         0.4         ND         5         ND         5.3         ND         55           N-Nitrosodimethylamine         ug/L         0.4         ND         5         ND         5.3         ND         55           N-Nitrosodiphenylamine         ug/L         50         ND		ug/L							
Fluoranthene         ug/L         50         ND         5         ND         5.3         ND         55           Fluorene         ug/L         50         ND         5         ND         5.3         ND         55           Hexachlorobutadiene         ug/L         0.5         ND         5         ND         5.3         ND         55           Hexachlorocyclopentadiene         ug/L         5         ND         5         ND         5.3         ND         55           Isophorone         ug/L         50         ND         5         ND         5.3         ND         55           Naphthalene         ug/L         10         8.8         5         ND         5.3         ND         55           N-Nitrobenzene         ug/L         0.4         ND         5         ND         5.3         ND         55           N-Nitrosodimethylamine         ug/L         0.4         ND         5         ND         5.3         ND         55           N-Nitrosodiphenylamine         ug/L         50         ND         5.3         ND         55           N-Nitrosodiphenylamine         ug/L         50         ND         5.3         ND									5 5
Fluorene       ug/L       50       ND       5       ND       5.3       ND       5         Hexachlorobutadiene       ug/L       0.5       ND       5       ND       5.3       ND       5         Hexachlorocyclopentadiene       ug/L       5       ND       5       ND       5.3       ND       5         Isophorone       ug/L       50       ND       5       ND       5.3       ND       5         Naphthalene       ug/L       10       8.8       5       ND       5.3       ND       5         Nitrobenzene       ug/L       0.4       ND       5       ND       5.3       ND       5         N-Nitrosodimethylamine       ug/L       0.4       ND       5       ND       5.3       ND       5         N-Nitrosodiphenylamine       ug/L       0.4       ND       5       ND       5.3       ND       5         N-Nitrosodiphenylamine       ug/L       0.4       ND       5       ND       5.3       ND       5         Phenol       ug/L       1       ND       5       ND       5.3       ND       5		-							5 5
Hexachlorobutadiene         ug/L         0.5         ND         5         ND         5.3         ND         5           Hexachlorocyclopentadiene         ug/L         5         ND         5         ND         5.3         ND         5           Isophorone         ug/L         50         ND         5         ND         5.3         ND         5           Naphthalene         ug/L         10         8.8         5         ND         5.3         ND         5           Nitrobenzene         ug/L         0.4         ND         5         ND         5.3         ND         5           N-Nitrosodimethylamine         ug/L         0.4         ND         5         ND         5.3         ND         5           N-Nitrosodiphenylamine         ug/L         50         ND         5         ND         5.3         ND         5           N-Nitrosodiphenylamine         ug/L         50         ND         5         ND         5.3         ND         5           Phenol         ug/L         1         ND         5         ND         5.3         ND         5		-							5
Hexachlorocyclopentadiene         ug/L         5         ND         5         ND         5.3         ND         5           Isophorone         ug/L         50         ND         5         ND         5.3         ND         5           Naphthalene         ug/L         10         8.8         5         ND         5.3         ND         5           Nitrobenzene         ug/L         0.4         ND         5         ND         5.3         ND         5           N-Nitrosodimethylamine         ug/L         0.4         ND         5         ND         5.3         ND         5           N-Nitrosodi-n-propylamine         ug/L         0.4         ND         5         ND         5.3         ND         5           N-Nitrosodiphenylamine         ug/L         50         ND         5         ND         5.3         ND         5           Phenol         ug/L         1         ND         5         ND         5.3         ND         5		-							5
Isophorone         ug/L         50         ND         5         ND         5.3         ND         55           Naphthalene         ug/L         10         8.8         5         ND         5.3         ND         55           Nitrobenzene         ug/L         0.4         ND         5         ND         5.3         ND         55           N-Nitrosodimethylamine         ug/L         0.4         ND         5         ND         5.3         ND         55           N-Nitrosodinethylamine         ug/L         ND         5         ND         5.3         ND         55           N-Nitrosodiphenylamine         ug/L         50         ND         5.3         ND         55           N-Nitrosodiphenylamine         ug/L         50         ND         5.3         ND         55           Phenol         ug/L         1         ND         5         ND         5.3         ND         55		-							5
Naphthalene         ug/L         10         8.8         5         ND         5.3         ND         5           Nitrobenzene         ug/L         0.4         ND         5         ND         5.3         ND         5           N-Nitrosodimethylamine         ug/L         0.4         ND         5         ND         5.3         ND         5           N-Nitrosodin-propylamine         ug/L         ND         5         ND         5.3         ND         5           N-Nitrosodiphenylamine         ug/L         50         ND         5         ND         5.3         ND         5           Phenol         ug/L         1         ND         5         ND         5.3         ND         5		-							5
Nitrobenzene         ug/L         0.4         ND         5         ND         5.3         ND         55           N-Nitrosodimethylamine         ug/L         ND         5         ND         5.3         ND         55           N-Nitrosodi-n-propylamine         ug/L         ND         5         ND         5.3         ND         55           N-Nitrosodi-n-propylamine         ug/L         50         ND         5.3         ND         55           N-Nitrosodiphenylamine         ug/L         50         ND         5.3         ND         55           Phenol         ug/L         1         ND         5         ND         5.3         ND         55	-	-							5
N-Nitrosodimethylamine         ug/L         ND         5         ND         5.3         ND         5           N-Nitrosodi-n-propylamine         ug/L         ND         5         ND         5.3         ND         5           N-Nitrosodi-n-propylamine         ug/L         50         ND         5         ND         5.3         ND         5           N-Nitrosodiphenylamine         ug/L         50         ND         5         ND         5.3         ND         5           Phenol         ug/L         1         ND         5         ND         5.3         ND         5		-							5
N-Nitrosodi-n-propylamine         ug/L         ND         5         ND         5.3         ND         55           N-Nitrosodiphenylamine         ug/L         50         ND         53         ND         55           Phenol         ug/L         1         ND         5         ND         5.3         ND         55			0.4						5 5
N-Nitrosodiphenylamine         ug/L         50         ND         5.3         ND         5.3           Phenol         ug/L         1         ND         5         ND         5.3         ND         5	-	-							5
Phenol ug/L 1 ND 5 ND 5.3 ND 5		-	50						5
		-							5
I UU/L I OU I NU 5 NU 5 31 NU 5	Pyrene	ug/L	50	ND	5	ND	5.3		5

RL Exceeds Criteria

Result Exceeds Criteria

587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 (860) 645-1102

Lab Sample Id

BF45881

BF45882

BF45883

BF45884

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

\* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine. TRIP BLANK INCLUDED

# TABLE 7Groundwater Sampling Results - Metals

Phoenix Environmental Labs								
587 East Middle Turnpike			5-1-		5545		5 - 1 -	
P.O. Box 370	Lab Sample Id		BF45		BF45		BF45	
Manchester, CT 06040	Collection Date		9/25/2		9/25/2		9/25/2	
(860) 645-1102	Client Id		TW-B-6		TW-B-8		TW-B-10	
	Matrix		Ground	water	Ground	water	Ground	water
Project Id : LARCHMONT								
	Units	TOGS-WQ/GA	Result	RL	Result	RL	Result	RL
Metals, Total								
Aluminum	mg/L	0.1	166	0.1	14.3	0.01		0.1
Aluminum (Dissolved)	mg/L	0.1	2.09	0.01	0.71	0.01		0.01
Antimony	mg/L	0.003	BRL	0.005	BRL	0.005		0.005
Antimony (Dissolved)	mg/L	0.003	BRL	0.005	BRL	0.005		0.005
Arsenic	mg/L	0.025	0.018	0.004	BRL	0.004		0.004
Arsenic (Dissolved)	mg/L	0.025	BRL	0.004	BRL	0.004		0.004
Barium	mg/L	1	2.9	0.002	0.22	0.002		0.002
Barium (Dissolved)	mg/L	1	0.081	0.002	0.086	0.002		0.002
Beryllium	mg/L	0.003	0.009	0.001	BRL	0.001		0.001
Beryllium (Dissolved)	mg/L	0.003	BRL	0.001	BRL	0.001	BRL	0.001
Cadmium	mg/L	0.005	0.013	0.001	BRL	0.001		0.001
Cadmium (Dissolved)	mg/L	0.005	BRL	0.001	BRL	0.001	BRL	0.001
Calcium	mg/L		205	0.1	52.6	0.01	54.7	0.01
Calcium (Dissolved)	mg/L		76.8	0.01	53.7	0.01	42.6	0.01
Chromium	mg/L	0.05	0.471	0.001	0.054	0.001		0.001
Chromium (Dissolved)	mg/L	0.05	0.005	0.001	0.003	0.001		0.001
Cobalt	mg/L		0.478	0.002	0.017	0.002		0.002
Cobalt (Dissolved)	mg/L		0.003	0.001	0.005	0.001		0.001
Copper	mg/L	0.2	0.912	0.005	0.043	0.005		0.005
Copper (Dissolved)	mg/L	0.2	0.008	0.005	BRL	0.005		0.005
Iron	mg/L	0.3	428	0.1	23	0.01		0.1
Iron (Dissolved)	mg/L	0.3	3.2	0.011	0.945	0.011	0.332	0.011
Lead	mg/L	0.025	0.09	0.002	0.006	0.002	0.114	0.002
Lead (Dissolved)	mg/L	0.025	BRL	0.002	BRL	0.002	BRL	0.002
Magnesium	mg/L	35	115	0.1	19.6	0.01	67.8	0.01
Magnesium (Dissolved)	mg/L	35	14.1	0.01	14.7	0.01	10.8	0.01
Manganese	mg/L	0.3	32.7	0.1	2.14	0.01	10.9	0.01
Manganese (Dissolved)	mg/L	0.3	0.435	0.001	2.21	0.011		0.011
Mercury	mg/L	0.0007	BRL	0.0002	BRL	0.0002		0.0002
Mercury (Dissolved)	mg/L	0.0007	BRL	0.0002	BRL	0.0002		0.0002
Nickel	mg/L	0.1	0.586	0.001	0.039	0.001	0.325	0.001
Nickel (Dissolved)	mg/L	0.1	0.006	0.001	0.012	0.001	0.012	0.001
Potassium	mg/L		96.8	1	18.1	0.1	74.6	1
Potassium (Dissolved)	mg/L		12.9	0.1	11.5	0.1		0.1
Selenium	mg/L	0.01	BRL	0.01	BRL	0.01	BRL	0.01
Selenium (Dissolved)	mg/L	0.01	BRL	0.011	BRL	0.011	BRL	0.011
Silver	mg/L	0.05	BRL	0.002	BRL	0.001	BRL	0.001
Silver (Dissolved)	mg/L	0.05	BRL	0.001	BRL	0.001	BRL	0.001
Sodium	mg/L	20	154	0.1	73.7	0.1	110	0.1
Sodium (Dissolved)	mg/L	20	191	1.1	65.9	1.1	135	1.1
Thallium	mg/L	0.0005	BRL	0.002	BRL	0.002	BRL	0.002
Thallium (Dissolved)	mg/L	0.0005	BRL	0.002	BRL	0.002		0.002
Vanadium	mg/L		0.486	0.002	0.037	0.002		0.002
Vanadium (Dissolved)	mg/L		0.008	0.002	BRL	0.002		0.002
Zinc	mg/L	5	0.822	0.002	0.059	0.002		0.002
Zinc (Dissolved)	mg/L	5	0.01	0.002	0.004	0.002		0.002

RL Exceeds Criteria

Result Exceeds Criteria

587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 (860) 645-1102

Lab Sample Id

BF45881

BF45882

BF45883

BF45884

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

\* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine. TRIP BLANK INCLUDED

# TABLE 8Groundwater Sampling Results - PCBs and Pesticides

•							
Client Id		TW-E	3-6	TW-E	3-8	TW-B	-10
Matrix		Ground	water	Ground	water	Ground	water
Units	TOGS-WQ/GA	Result	RL	Result	RL	Result	RL
ug/L	0.09	ND	0.05	ND	0.05	ND	0.056
-							0.056
	0.09	ND		ND		ND	0.056
-	0.09	ND		ND	0.05	ND	0.056
	0.09	ND		ND	0.05	ND	0.056
	0.09	ND		ND	0.05	ND	0.056
	0.09	ND		ND	0.05	ND	0.056
		ND	0.05	ND	0.05	ND	0.056
ug/L		ND	0.05	ND	0.05	ND	0.056
ug/I	03		0.5		0.01		0.01
-							0.01
							0.01
							0.01
							0.083
	0.0						0.003
	0.04						0.000
							0.33
							0.028
-							0.002
	0.001						0.056
							0.056
							0.056
							0.01
	5						0.056
							0.056
		ND*		ND		ND	0.028
	0.04	ND*		ND		ND	0.01
							0.01
		ND*	1	ND		ND	0.11
ug/L	0.06	ND*	10	ND	0.25	ND	0.28
	Units ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	Collection Date Client Id Matrix         Units       TOGS-WQ/GA         ug/L       0.09         ug/L       0.01         ug/L       0.2         ug/L       0.01         ug/L       0.01         ug/L       0.04         ug/L       0.04         ug/L       0.04         ug/L       0.04         ug/L       5         ug/L       5         ug/L       5         ug/L       5         ug/L       0.04         ug/L       0.04         ug/L       0.05         ug/L       0.04         ug/L       0.03         ug/L       0.03         ug/L       0.03	Collection Date Client Id Matrix         9/25/2           Units         TOGS-WQ/GA         Result           Units         TOGS-WQ/GA         Result           ug/L         0.09         ND           ug/L         0.09         ND*           ug/L         0.2         ND*           ug/L         0.2         ND*           ug/L         0.2         ND*           ug/L         0.04         ND*           ug/L         0.04         ND*           ug/L         0.04         ND*           ug/L         0.04         ND*	Collection Date Client Id Matrix         9/25/2013           Units         TOGS-WQ/GA         Result         RL           Units         TOGS-WQ/GA         Result         RL           ug/L         0.09         ND         0.05           ug/L         0.01         ND*         0.5           ug/L         0.22         ND*         0.5           ug/L         0.23         ND*         0.5           ug/L         0.24         ND*         0.5           ug/L         0.5         ND*         0.5           ug/L         0.04         ND*         0.5           ug/L <t< td=""><td>Collection Date Client Id Matrix         <math>9/25/2013</math> <math>9/25/2</math>           TW-B-6 Groundwater         TW-E Groundwater         TW-E Groundwater           Units         TOGS-WQ/GA         Result         RL         Result           ug/L         0.09         ND         0.05         ND           ug/L         0.16         ND         0.05         ND           ug/L</td><td>Collection Date Client Id Matrix         9/25/2013         9/25/2013           TW-B-6 Groundwater         TW-B-8 Groundwater         TW-B-8 Groundwater           Units         TOGS-WQ/GA         Result         RL         Result         RL           ug/L         0.09         ND         0.05         ND         0.05           ug/L         0.22         ND*         0.5         ND         0.01           ug/L         0.2         ND*         0.5         ND         0.01           <td< td=""><td>Collection Date Client Id Matrix         9/25/2013         9/25/2013         9/25/2013         9/25/2013         9/25/2013           Matrix         TW-B-6 Groundwater         TW-B-8 Groundwater         TW-B-8 Groundwater         TW-B           Units         TOGS-WQ/GA         Result         RL         Result         RL         Result           ug/L         0.09         ND         0.05         ND         0.05         ND         0.05           ug/L         0.09         ND         0.05         ND         0.05         ND</td></td<></td></t<>	Collection Date Client Id Matrix $9/25/2013$ $9/25/2$ TW-B-6 Groundwater         TW-E Groundwater         TW-E Groundwater           Units         TOGS-WQ/GA         Result         RL         Result           ug/L         0.09         ND         0.05         ND           ug/L         0.16         ND         0.05         ND           ug/L	Collection Date Client Id Matrix         9/25/2013         9/25/2013           TW-B-6 Groundwater         TW-B-8 Groundwater         TW-B-8 Groundwater           Units         TOGS-WQ/GA         Result         RL         Result         RL           ug/L         0.09         ND         0.05         ND         0.05           ug/L         0.22         ND*         0.5         ND         0.01           ug/L         0.2         ND*         0.5         ND         0.01 <td< td=""><td>Collection Date Client Id Matrix         9/25/2013         9/25/2013         9/25/2013         9/25/2013         9/25/2013           Matrix         TW-B-6 Groundwater         TW-B-8 Groundwater         TW-B-8 Groundwater         TW-B           Units         TOGS-WQ/GA         Result         RL         Result         RL         Result           ug/L         0.09         ND         0.05         ND         0.05         ND         0.05           ug/L         0.09         ND         0.05         ND         0.05         ND</td></td<>	Collection Date Client Id Matrix         9/25/2013         9/25/2013         9/25/2013         9/25/2013         9/25/2013           Matrix         TW-B-6 Groundwater         TW-B-8 Groundwater         TW-B-8 Groundwater         TW-B           Units         TOGS-WQ/GA         Result         RL         Result         RL         Result           ug/L         0.09         ND         0.05         ND         0.05         ND         0.05           ug/L         0.09         ND         0.05         ND         0.05         ND

RL Exceeds Criteria

Result Exceeds Criteria

587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 (860) 645-1102

Lab Sample Id

BF45881

BF45882

BF45883

BF45884

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

\* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine. TRIP BLANK INCLUDED



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Ap 19, P.C.	₽			

## **Supplementary Phase II Environmental Site Assessment**

Proposed Pinebrook Condominiums 2101 and North Avenue Palmer Avenue Larchmont, New York, 10538

October 7, 2013

Prepared for:

Wilder Balter Partners, Inc 570 Taxter Road Elmsford, New York 10523

Prepared by:

Galli Engineering, P.C. 734 Walt Whitman Road, Suite 402A Melville, NY 11747



UNAUTHORIZED ALTERATION OF, OR ADDITION TO, PLANS OR DOCUMENTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW. ANY ALTERATION OF THIS DOCUMENT MUST BE DONE BY A PERSON ACTING UNDER THE DIRECT SUPERVISION OF A LICENSED PROFESSIONAL IN ACCORDANCE WITH THE STATE EDUCATION LAW. COPIES OF THIS DOCUMENT NOT MARKED WITH AN ORIGINAL OF THE PROFESSIONAL ENGINEERS INKED SEAL SHALL NOT BE CONSIDERED VALID TRUE COPIES.

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## **APPENDICES**

Appendix A Laboratory Analytical Reports

#### 1.0 BACKGROUND/PURPOSE

The Subject Site consists of two vacant parcels located at located at 2101 Palmer Avenue and North Avenue, Larchmont, New York, also known as the Esposito Property. The Site currently has an open spill number associated with the discovery of free-phase petroleum on the groundwater table in the easternmost portion of the Site on September 23, 2010. In October 2011, the spill was remediated under an approved Remedial Work Plan, and based upon the Closure Report; the NYSDEC formally closed spill No. 1006787. However, after technical review of the findings, the NYSDEC reopened the spill due to the presence of semi-volatile organic compounds (SVOCs) and to a lesser extent, the metals Chromium and Barium, detected in the soil/fill used to backfill the remediated area. A Brownfield Cleanup Program application was submitted to the NYSDEC in July, 2013. However, the Department requested additional Site-wide data to demonstrate the overall Site is a brownfield in addition to the spill area on the eastern side of the Site. This investigation was meant to provide the additional soil and groundwater data requested where previous investigation had not been performed.

## 2.0 SCOPE OF WORK

This investigation focused on two areas within the Site;

- The westernmost section of the Site lies within the footprint of one of the two proposed buildings. In this area, four soil borings were performed (B-1 through B-4) and one temporary well was set at boring location B-1.
- The east-central portion of the Site will be utilized mainly for parking but is located adjacent to second building. In this area, six (6) soil borings were performed (B-5 through B-10) and three (3) temporary wells were set at select boring locations B-6, B-8, and B-10.

A map showing all the sampling locations is included as Figure 1.

#### 3.0 SITE ASSESSMENT METHODOLOGY

The Phase II ESA fieldwork was conducted at the subject Site on September 24<sup>th</sup> and 25<sup>th</sup>, 2013. The work was conducted in accordance with industry practice as defined in the ASTM Standard: Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process (E 1903-97). Galli Engineering performed oversight and soil sampling with C<sub>2</sub>G Environmental Consultants, LLC, which provided soil boring services. A track-mounted

Geoprobe with a hydraulic driven probe was utilized for sample collection. The following sections provide a description of the fieldwork activities.

## 3.1 Soil Boring Sampling

A total of ten (10) soil borings were performed at the subject property and were designated B-1 through B-10. These soil borings were advanced using a track mounted Geoprobe unit the depth that refusal was met. The majority of the borings were completed at a depth of approximately ten (10) feet below grade with the deepest boring (B-1) reaching refusal at a maximum depth of fourteen (14) feet below grade.

This Geoprobe unit utilizes a hydraulic hammer to drive a hollow five-foot steel rod containing a polyethylene liner to obtain a relatively undisturbed soil sample. Once the rod is driven to the desired depth, the drill string is removed from the borehole and the polyethylene liner containing the soil sample is withdrawn from the drill string. Once the liner is split open, the soils are examined and a sample is collected using a disposable Nitrile gloved hand.

One sample was collected from each borehole, from the interval showing the greatest potential for contamination, based upon the field observations including staining and/or petroleum odors. Upon collection, each soil sample was placed into a clean 8-ounce glass jar (for analysis of SVOCs, Pesticides, PCBs, and TAL Metals) and three (3) 40-mL vials (for analysis of VOCs). Each jar was properly labeled with designated sample identification, samplers initials, date and time of collection, and then placed into a secure cooler. All samples were logged onto a chain of custody document by sampling personnel, and remained in the custody of Galli Engineering until pick up and transportation to the analytical laboratory via a laboratory representative.

### 3.2 Groundwater Sampling

Upon completion of soil borings, temporary monitoring wells were installed in four (4) of the deeper boring locations (B-1, B-6, B-8, and B-10). The temporary wells were constructed of 1-inch schedule 40 PVC piping with 0,020 slot well screens, and were gravel packed with #2 Morie gravel. Total depth of the wells ranged from approximately 10 feet at B-6, B-8 and B-10 to 14 feet at B-1.

After installation, the wells were allowed to set overnight and samples were collected the following day. Prior to sample collection, each well was gauged for the presence or absence of free-product and depth to water. Then, using a dedicated disposable bailer, several well volumes were removed from each well prior to sample collection. Groundwater samples were then collected for analysis of VOCs, SVOCs, TAL Metals, PCBs and Pesticides.

### 4.0 LABORATORY ANALYTICAL RESULTS

The laboratory results for the sampling conducted at the Site are discussed below, and summarized in Tables 1 through 8.

#### 4.1 Soil Sample Analytical Results

Soil sampling results were compared against The New York Department of Environmental Conservation (NYSDEC) Environmental Remediation Subpart 375-6.3: Unrestricted Use and Residential Use Soil Cleanup Objectives (SCOs). The following is a summary of the results.

#### <u>Volatiles</u>

 VOCs were detected above Track 1 Unrestricted Use SCOs in soil samples from B-4 and B-5. Tetrachloroethene at a concentration of 2,400 ug/Kg, was detected above the reporting limit in B-4. The sample from B-5 reported concentrations of 1,2,4-Trimethylbenze at and Ethylbenzene above Track 1 Unrestricted Use SCOs.

#### Semi-Volatiles

• Several SVOCs were detected above Track 2 Residential Use SCOs in borings B-1, B-4, B-6 and B-7. Many of those SVOCs were two to four times over the Track 2 SCOs.

#### <u>Metals</u>

- Fairly significant metals concentrations were detected in excess of Track 2 Residential Use SCOs in Soil Boring B-1. (Arsenic = 17 mg/Kg, Cadmium = 3.19 ug/Kg, & Lead = 477 ug/Kg.)
- Metals Concentrations, including; Arsenic, Copper, Lead, Nickel and Zinc, above Track 1 Residential Use SCOs in B-4, B-6, B-7 and B-9.

#### <u>PCBs</u>

• No PCBs were detected above the laboratory reporting limit in any of the soil samples.

#### Pesticides

- The pesticide 4-4'-DDT was detected at a concentration of 9.6 ug/Kg in soil boring B-4, which is above the Track 1 Unrestricted Use SCO of 3.3 ug/Kg.
- Chlordane was detected in soil from B-5 at a concentration of 290 ug/Kg, however; no SCO exists for that compound.
- No other pesticides were detected in any of the other soil samples.

## 4.2 Groundwater Sampling Analytical Results

Groundwater samples were collected from Temporary Wells installed in borings B-6, B-8 and B-10. Boring B-1 could not be sampled as the temporary well was dry. Groundwater sampling results were compared to the NYS Part 703 Standards for a Groundwater Source of Drinking Water (Type GA) and are summarized below.

#### <u>Volatiles</u>

- The compound tetrachloroethene was detected in the groundwater sample from B-10 (23 ug/L) in excess of the guidance value of 5ug/L.
- Several VOCs were also identified slightly above the guidance values in the groundwater sample from B-6.

#### Semi-Volatiles

• Two SVOC compounds were detected above groundwater standards in B-6. No other SVOCs were identified above laboratory reporting limits in any of the other samples.

#### <u>Metals</u>

• Several Metals concentrations were identified above class GA groundwater limits in all three of the groundwater samples.

#### <u>PCBs</u>

• No PCBs were detected above the laboratory reporting limit in any of the groundwater samples.

#### **Pesticides**

• The pesticide Chlordane was detected in excess of standards in groundwater samples from B-6 and B-10.

#### 5.0 CONCLUSIONS AND RECOMMENDATIONS

Galli Engineering, P.C. has prepared this Supplemental Phase II Environmental Site Assessment (ESA) report on behalf of Wilder Balter Partners, Inc. This investigation was performed as a result of a NYSDEC request to provide additional sampling and analysis information at the subject Site, required for determination of acceptance of the Site into the Brownfield Clean-up Program.

Based on the analytical data, Galli Engineering concludes the following:

- There is significant Metals contamination present in the soils and groundwater at the subject Site, in excess of suggested NYS guidance valves.
- SVOCs were detected above Track 2 Residential Use SCOs in soil samples collected from four (B-1, B-4, B-6, & B-7) out of ten borings
- VOCs were detected above Track 1 Unrestricted Use SCOs in soil samples from B-4 and B-5.
- The pesticide 4-4'-DDT was detected at a concentration of 9.6 ug/Kg in soil boring B-4, which is above the Track 1 Unrestricted Use SCO of 3.3 ug/Kg.
- Chlordane was detected in soil from B-5 at a concentration of 290 ug/Kg, however; no SCO exists for that compound.
- Two SVOC compounds were detected barely above groundwater standards in B-6.

• The pesticide Chlordane was detected in excess of standards in groundwater samples from B-6 and B-10.

Based upon the information and data collected during this supplemental investigation and summarized above, the contamination identified at the Site exceeds applicable SCOs and groundwater standards, and the contaminants of concern are consistent with historical use of the Site. Therefore the Site meets the definition of a brownfield and should be accepted into the Brownfield Cleanup Program for NYSDEC oversight of the remediation work that will be required.

APPENDIX A LABORATORY ANALYTICAL REPORTS