TABLE 1
Rock Outcrop Surface Soil Sampling Results - VOCs

Phoenix Environmental Labs 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 (860) 645-1102	Lab Sample Id Collection Date Client Id Matrix			BF45893 9/25/2013 **RC-1** Soil		BF45894 9/25/2013 **RC-2** Soil		BF45895 9/25/2013 **RC-3** Soil	
Project Id : LARCHMONT	Units	**Track 2** Residential Use	**Track 1** Unrestricted Use	Result	RL	Result	RL	Result	RL
Volatiles By SW8260									
1,1,1,2-Tetrachloroethane	ug/Kg			ND	12	ND	20	ND	11
1,1,1-Trichloroethane	ug/Kg	100,000	680	ND	12	ND	20	ND	11
1,1,2,2-Tetrachloroethane	ug/Kg			ND	7.1	ND	12	ND	6.9
1,1,2-Trichloroethane	ug/Kg			ND	12	ND	20	ND	11
1,1-Dichloroethane	ug/Kg	19,000	270	ND	12	ND	20	ND	11
1,1-Dichloroethene	ug/Kg	100,000	330	ND	12	ND	20	ND	11
1,1-Dichloropropene	ug/Kg			ND	12	ND	20	ND	11
1,2,3-Trichlorobenzene	ug/Kg			ND	12	ND	20	ND	11
1,2,3-Trichloropropane	ug/Kg			ND	12	ND	20	ND	11
1,2,4-Trichlorobenzene	ug/Kg			ND	12	ND	20	ND	11
1,2,4-Trimethylbenzene	ug/Kg	47,000	3,600	ND	12	ND	20	ND	11
1,2-Dibromo-3-chloropropane	ug/Kg			ND	12	ND	20	ND	11
1,2-Dibromoethane	ug/Kg			ND	12	ND	20	ND	11
1,2-Dichlorobenzene	ug/Kg	100,000	1,100	ND	12	ND	20	ND	11
1,2-Dichloroethane	ug/Kg	2,300	20	ND	12	ND	20	ND	11
1,2-Dichloropropane	ug/Kg			ND	12	ND	20	ND	11
1,3,5-Trimethylbenzene	ug/Kg	47,000	8,400	ND	12	ND	20	ND	11
1,3-Dichlorobenzene	ug/Kg	17,000	2,400	ND	12	ND	20	ND	11
1,3-Dichloropropane	ug/Kg			ND	12	ND	20	ND	11
1,4-Dichlorobenzene	ug/Kg	9,800	1,800	ND	12	ND	20	ND	11
2,2-Dichloropropane	ug/Kg			ND	12	ND	20	ND	11
2-Chlorotoluene	ug/Kg			ND	12	ND	20	ND	11
2-Hexanone	ug/Kg			ND	60	ND	98	ND	57
2-Isopropyltoluene	ug/Kg			ND	12	ND	20	ND	11
4-Chlorotoluene	ug/Kg			ND	12	ND	20	ND	11
4-Methyl-2-pentanone	ug/Kg			ND	60	ND	98	ND	57
Acetone	ug/Kg	100,000	50	ND	71	ND	120	ND	69
Acrylonitrile	ug/Kg			ND	12	ND	20	ND	11
Benzene	ug/Kg	2,900	60	ND	12	ND	20	ND	11
Bromobenzene	ug/Kg			ND	12	ND	20	ND	11
Bromochloromethane	ug/Kg			ND	12	ND	20	ND	11
Bromodichloromethane	ug/Kg			ND	12	ND	20	ND	11
Bromoform	ug/Kg			ND	12	ND	20	ND	11
Bromomethane	ug/Kg			ND	12	ND	20	ND	11
Carbon Disulfide	ug/Kg			ND	12	ND	20	ND	11
Carbon tetrachloride	ug/Kg	1,400	760	ND	12	ND	20	ND	11
Chlorobenzene	ug/Kg	100,000	1,100	ND	12	ND	20	ND	11
Chloroethane	ug/Kg			ND	12	ND	20	ND	11
Chloroform	ug/Kg	10,000	370	ND	12	ND	20	ND	11
Chloromethane	ug/Kg			ND	12	ND	20	ND	11
cis-1,2-Dichloroethene	ug/Kg	59,000	250	ND	12	ND	20	ND	11
cis-1,3-Dichloropropene	ug/Kg			ND	12	ND	20	ND	11
Dibromochloromethane	ug/Kg			ND	7.1	ND	12	ND	6.9
Dibromomethane	ug/Kg			ND	12	ND	20	ND	11
Dichlorodifluoromethane	ug/Kg			ND	12	ND	20	ND	11
Ethylbenzene	ug/Kg	30,000	1,000	ND	12	ND	20	ND	11
Hexachlorobutadiene	ug/Kg			ND	12	ND	20	ND	11
Isopropylbenzene	ug/Kg			ND	12	ND	20	ND	11
m&p-Xylene	ug/Kg			ND	12	ND	20	ND	11
Methyl Ethyl Ketone	ug/Kg	100,000	120	ND	71	ND	120	ND	69
Methyl t-butyl ether (MTBE)	ug/Kg	62,000	930	ND	24	ND	39	ND	23
Methylene chloride	ug/Kg	51,000	50	ND	12	ND	20	ND	11
Naphthalene	ug/Kg			ND	12	ND	20	ND	11
n-Butylbenzene	ug/Kg	100,000	12,000	ND	12	ND	20	ND	11
n-Propylbenzene	ug/Kg	100,000	3,900	ND	12	ND	20	ND	11
o-Xylene	ug/Kg			ND	12	ND	20	ND	11
p-Isopropyltoluene	ug/Kg			ND	12	ND	20	ND	11
sec-Butylbenzene	ug/Kg	100,000	11,000	ND	12	ND	20	ND	11
Styrene	ug/Kg			ND	12	ND	20	ND	11
tert-Butylbenzene	ug/Kg	100,000	5,900	ND	12	ND	20	ND	11
Tetrachloroethene	ug/Kg	5,500	1,300	ND	12	ND	20	ND	11
Tetrahydrofuran (THF)	ug/Kg			ND	24	ND	39	ND	23
Toluene	ug/Kg	100,000	700	ND	12	ND	20	ND	11
Total Xylenes	ug/Kg		260	ND	12	ND	20	ND	11
trans-1,2-Dichloroethene	ug/Kg	100,000	190	ND	12	ND	20	ND	11
trans-1,3-Dichloropropene	ug/Kg			ND	12	ND	20	ND	11
trans-1,4-dichloro-2-butene	ug/Kg			ND	24	ND	39	ND	23
Trichloroethene	ug/Kg	10,000	470	ND	12	ND	20	ND	11
Trichlorofluoromethane	ug/Kg			ND	12	ND	20	ND	11
Trichlorotrifluoroethane	ug/Kg			ND	12	ND	20	ND	11
Vinyl chloride	ug/Kg	210	20	ND	12	ND	20	ND	11

RL Exceeds Criteria	░
Result Exceeds Criteria	▓

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

Lab Sample Id
BF45890

BF45891

BF45892

BF45893

BF45894

BF45895

Sample Comments

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 reported.

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TABLE 2
Surface Soil Sampling Results - SVOCs

Phoenix Environmental Labs 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 (860) 645-1102 Project Id : LARCHMONT	Lab Sample Id			BF45893		BF45894		BF45895	
	Collection Date			9/25/2013		9/25/2013		9/25/2013	
	Client Id			**RC-1**		**RC-2**		**RC-3**	
	Matrix	**Track 2**	**Track 1**	Soil		Soil		Soil	
	Units	Residential Use	Unrestricted Use	Result	RL	Result	RL	Result	RL
Semivolatiles By SW 8270									
1,2,4,5-Tetrachlorobenzene	ug/Kg			ND	340	ND	300	ND	300
1,2,4-Trichlorobenzene	ug/Kg			ND	340	ND	300	ND	300
1,2-Dichlorobenzene	ug/Kg			ND	340	ND	300	ND	300
1,2-Diphenylhydrazine	ug/Kg			ND	490	ND	430	ND	430
1,3-Dichlorobenzene	ug/Kg			ND	340	ND	300	ND	300
1,4-Dichlorobenzene	ug/Kg			ND	340	ND	300	ND	300
2,4,5-Trichlorophenol	ug/Kg			ND	340	ND	300	ND	300
2,4,6-Trichlorophenol	ug/Kg			ND	340	ND	300	ND	300
2,4-Dichlorophenol	ug/Kg			ND	340	ND	300	ND	300
2,4-Dimethylphenol	ug/Kg			ND	340	ND	300	ND	300
2,4-Dinitrophenol	ug/Kg			ND	780	ND	680	ND	690
2,4-Dinitrotoluene	ug/Kg			ND	340	ND	300	ND	300
2,6-Dinitrotoluene	ug/Kg			ND	340	ND	300	ND	300
2-Chloronaphthalene	ug/Kg			ND	340	ND	300	ND	300
2-Chlorophenol	ug/Kg			ND	340	ND	300	ND	300
2-Methylnaphthalene	ug/Kg			ND	340	ND	300	ND	300
2-Methylphenol (o-cresol)	ug/Kg	100,000	330	ND	340	ND	300	ND	300
2-Nitroaniline	ug/Kg			ND	780	ND	680	ND	690
2-Nitrophenol	ug/Kg			ND	340	ND	300	ND	300
3&4-Methylphenol (m&p-cresol)	ug/Kg			ND	490	ND	430	ND	430
3,3'-Dichlorobenzidine	ug/Kg			ND	340	ND	300	ND	300
3-Nitroaniline	ug/Kg			ND	780	ND	680	ND	690
4,6-Dinitro-2-methylphenol	ug/Kg			ND	1,400	ND	1,200	ND	1,300
4-Bromophenyl phenyl ether	ug/Kg			ND	490	ND	430	ND	430
4-Chloro-3-methylphenol	ug/Kg			ND	340	ND	300	ND	300
4-Chloroaniline	ug/Kg			ND	340	ND	300	ND	300
4-Chlorophenyl phenyl ether	ug/Kg			ND	340	ND	300	ND	300
4-Nitroaniline	ug/Kg			ND	780	ND	680	ND	690
4-Nitrophenol	ug/Kg			ND	1,400	ND	1,200	ND	1,300
Acenaphthene	ug/Kg	100,000	20,000	ND	340	ND	300	ND	300
Acenaphthylene	ug/Kg	100,000	100,000	ND	340	ND	300	ND	300
Acetophenone	ug/Kg			ND	340	ND	300	ND	300
Aniline	ug/Kg			ND	1,400	ND	1,200	ND	1,300
Anthracene	ug/Kg	100,000	100,000	ND	340	ND	300	ND	300
Benz(a)anthracene	ug/Kg	**1,000**	1,000	760	340	810	300	560	300
Benzidine	ug/Kg			ND	590	ND	510	ND	520
Benzo(a)pyrene	ug/Kg	**1,000**	1,000	780	340	930	300	550	300
Benzo(b)fluoranthene	ug/Kg	**1,000**	1,000	**1,400**	340	**2,200**	300	**1,500**	300
Benzo(ghi)perylene	ug/Kg	100,000	100,000	440	340	ND	300	ND	300
Benzo(k)fluoranthene	ug/Kg	**1,000**	800	470	340	690	300	340	300
Benzoic acid	ug/Kg			ND	1,400	ND	1,200	ND	1,300
Benzyl butyl phthalate	ug/Kg			ND	340	ND	300	ND	300
Bis(2-chloroethoxy)methane	ug/Kg			ND	340	ND	300	ND	300
Bis(2-chloroethyl)ether	ug/Kg			ND	490	ND	430	ND	430
Bis(2-chloroisopropyl)ether	ug/Kg			ND	340	ND	300	ND	300
Bis(2-ethylhexyl)phthalate	ug/Kg			ND	340	ND	300	ND	300
Carbazole	ug/Kg			ND	730	ND	640	ND	650
Chrysene	ug/Kg	**1,000**	1,000	1,000	340	**1,200**	300	760	300
Dibenz(a,h)anthracene	ug/Kg	330	330	ND	340	ND	300	ND	300
Dibenzofuran	ug/Kg		7,000	ND	340	ND	300	ND	300
Diethyl phthalate	ug/Kg			ND	340	ND	300	ND	300
Dimethylphthalate	ug/Kg			ND	340	ND	300	ND	300
Di-n-butylphthalate	ug/Kg			ND	340	ND	300	ND	300
Di-n-octylphthalate	ug/Kg			ND	340	ND	300	ND	300
Fluoranthene	ug/Kg	100,000	100,000	1,600	340	1,500	300	970	300
Fluorene	ug/Kg	100,000	30,000	ND	340	ND	300	ND	300
Hexachlorobenzene	ug/Kg			ND	340	ND	300	ND	300
Hexachlorobutadiene	ug/Kg			ND	340	ND	300	ND	300
Hexachlorocyclopentadiene	ug/Kg			ND	340	ND	300	ND	300
Hexachloroethane	ug/Kg			ND	340	ND	300	ND	300
Indeno(1,2,3-cd)pyrene	ug/Kg	500	500	370	340	ND	300	ND	300
Isophorone	ug/Kg			ND	340	ND	300	ND	300
Naphthalene	ug/Kg	100,000	12,000	ND	340	ND	300	ND	300
Nitrobenzene	ug/Kg			ND	340	ND	300	ND	300
N-Nitrosodimethylamine	ug/Kg			ND	490	ND	430	ND	430
N-Nitrosodi-n-propylamine	ug/Kg			ND	340	ND	300	ND	300
N-Nitrosodiphenylamine	ug/Kg			ND	490	ND	430	ND	430
Pentachloronitrobenzene	ug/Kg			ND	490	ND	430	ND	430
Pentachlorophenol	ug/Kg	2,400	800	ND	490	ND	430	ND	430
Phenanthrene	ug/Kg	100,000	100,000	810	340	820	300	540	300
Phenol	ug/Kg	100,000	330	ND	340	ND	300	ND	300
Pyrene	ug/Kg	100,000	100,000	1,200	340	1,200	300	750	300
Pyridine	ug/Kg			ND	490	ND	430	ND	430

RL Exceeds Criteria ▒

Result Exceeds Criteria ▓

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P.O. Box 370
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Lab Sample Id
BF45890

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Sample Comments

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.

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TABLE 3
Rock Outcrop Surface Soil Sampling Results - Metals and PCBs

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

	Lab Sample Id			BF45893		BF45894		BF45895	
	Collection Date			9/25/2013		9/25/2013		9/25/2013	
	Client Id			**RC-1**		**RC-2**		**RC-3**	
	Matrix	**Track 2**	**Track 1**	Soil		Soil		Soil	
Project Id : LARCHMONT		Residential	Unrestricted						
	Units	Use	Use	Result	RL	Result	RL	Result	RL
Metals, Total									
Aluminum	mg/Kg			23,400	72	24,200	68	20,500	70
Antimony	mg/Kg			BRL	4.8	BRL	4.5	BRL	4.7
Arsenic	mg/Kg	16	13	8.3	1	10.5	0.9	13	0.9
Barium	mg/Kg	350	350	182	0.48	221	0.45	156	0.47
Beryllium	mg/Kg	14	7.2	0.88	0.38	1	0.36	0.71	0.38
Cadmium	mg/Kg	**2.5**	2.5	**2.67**	0.48	**2.65**	0.45	1.93	0.47
Calcium	mg/Kg			8,340	72	4,100	6.8	2,690	70
Chromium	mg/Kg		1	37.3	0.48	36.8	0.45	30.1	0.47
Cobalt	mg/Kg			20.8	0.48	20.5	0.45	11.3	0.47
Copper	mg/kg	**270**	50	109	4.8	123	4.5	82.2	0.47
Iron	mg/Kg			34,200	72	30,000	68	25,700	70
Lead	mg/Kg	**400**	63	311	4.8	**403**	4.5	223	4.7
Magnesium	mg/Kg			11,000	72	8,780	68	5,400	70
Manganese	mg/Kg	2,000	1,600	560	4.8	1,450	4.5	786	4.7
Mercury	mg/Kg	0.81	0.18	0.27	0.1	0.47	0.1	0.22	0.09
Nickel	mg/Kg	140	30	36	0.48	32.8	0.45	24.4	0.47
Potassium	mg/Kg			5,360	72	2,250	68	1,460	70
Selenium	mg/Kg	36	3.9	BRL	2	BRL	2	BRL	1.9
Silver	mg/Kg	36	2	BRL	0.48	BRL	0.45	BRL	0.47
Sodium	mg/Kg			299	7.2	359	6.8	144	7
Thallium	mg/Kg			BRL	4.3	BRL	4.1	BRL	4.2
Vanadium	mg/Kg			123	4.8	118	4.5	76.4	0.47
Zinc	mg/Kg	**2,200**	109	261	4.8	247	4.5	161	4.7
PCBs By SW 8082									
PCB-1016	ug/Kg	1,000	100	ND	97	ND	83	ND	87
PCB-1221	ug/Kg	1,000	100	ND	97	ND	83	ND	87
PCB-1232	ug/Kg	1,000	100	ND	97	ND	83	ND	87
PCB-1242	ug/Kg	1,000	100	ND	97	ND	83	ND	87
PCB-1248	ug/Kg	1,000	100	ND	97	ND	83	ND	87
PCB-1254	ug/Kg	1,000	100	ND	97	ND	83	ND	87
PCB-1260	ug/Kg	1,000	100	110	97	84	83	ND	87
PCB-1262	ug/Kg			ND	97	ND	83	ND	87
PCB-1268	ug/Kg			ND	97	ND	83	ND	87

RL Exceeds Criteria ░

Result Exceeds Criteria ▓

Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
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TABLE 4
Surface Soil Sampling Results - Pesticides and Herbicides

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

	Lab Sample Id			BF45893		BF45894		BF45895	
	Collection Date			9/25/2013		9/25/2013		9/25/2013	
	Client Id			**RC-1**		**RC-2**		**RC-3**	
	Matrix	**Track 2**	**Track 1**	Soil		Soil		Soil	
Project Id : LARCHMONT		Residential	Unrestricted						
	Units	Use	Use	Result	RL	Result	RL	Result	RL
Pesticides By SW8081									
4,4' -DDD	ug/Kg	2,600	3.3	ND	2.9	8.6	8	ND*	4.4
4,4' -DDE	ug/Kg	1,800	3.3	13	2.9	16	8	14	8.4
4,4' -DDT	ug/Kg	1,700	3.3	63	2.9	32	8	37	8.4
a-BHC	ug/Kg	97	20	ND	4.7	ND	4	ND	4.2
Alachlor	ug/Kg			ND	4.7	ND	4	ND	4.2
Aldrin	ug/Kg	19	5	ND	1.4	ND	1.2	ND	1.3
b-BHC	ug/Kg	72	36	ND	4.7	ND	4	ND	4.2
Chlordane	ug/Kg			ND	14	ND	12	ND	13
d-BHC	ug/Kg	100,000	40	ND	4.7	ND	4	ND	7.9
Dieldrin	ug/Kg	**39**	5	ND*	6.8	ND	4	ND	3.9
Endosulfan I	ug/Kg	4,800	2,400	ND	4.7	ND	4	ND	4.2
Endosulfan II	ug/Kg	4,800	2,400	ND	9.3	ND	8	ND	8.4
Endosulfan sulfate	ug/Kg	4,800	2,400	ND	9.3	ND	16	ND	8.7
Endrin	ug/Kg	2,200	14	ND	9.3	ND	8	ND	8.4
Endrin aldehyde	ug/Kg			ND	9.3	ND	8	ND	8.4
Endrin ketone	ug/Kg			ND	9.3	ND	8	ND	8.4
g-BHC	ug/Kg	280	100	ND	1.4	ND	1.2	ND	1.3
Heptachlor	ug/Kg	420	42	ND	5.3	ND	2.5	ND	3.5
Heptachlor epoxide	ug/Kg			ND	4.7	ND	4	ND	4.2
Methoxychlor	ug/Kg			ND	47	ND	40	ND	42
Toxaphene	ug/Kg			ND	47	ND	40	ND	42
Chlorinated Herbicides By SW8151									
2,4,5-T	ug/Kg			ND	61	ND	53	ND	54
2,4,5-TP (Silvex)	ug/Kg	58,000	3,800	ND	61	ND	53	ND	54
2,4-D	ug/Kg			ND	61	ND	53	ND	54
2,4-DB	ug/Kg			ND	610	ND	530	ND	540
Dalapon	ug/Kg			ND	61	ND	53	ND	54
Dicamba	ug/Kg			ND	120	ND	100	ND	110
Dichloroprop	ug/Kg			ND	61	ND	53	ND	54
Dinoseb	ug/Kg			ND	120	ND	100	ND	110

RL Exceeds Criteria	░
Result Exceeds Criteria	▓

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

Lab Sample Id

BF45890

BF45891

BF45892

BF45893

BF45894

BF45895

Sample Comments

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 reported.

**Poor surrogate recovery was observed for volatiles due to matrix interference. Sample was analyzed twice with
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.

* 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.

* 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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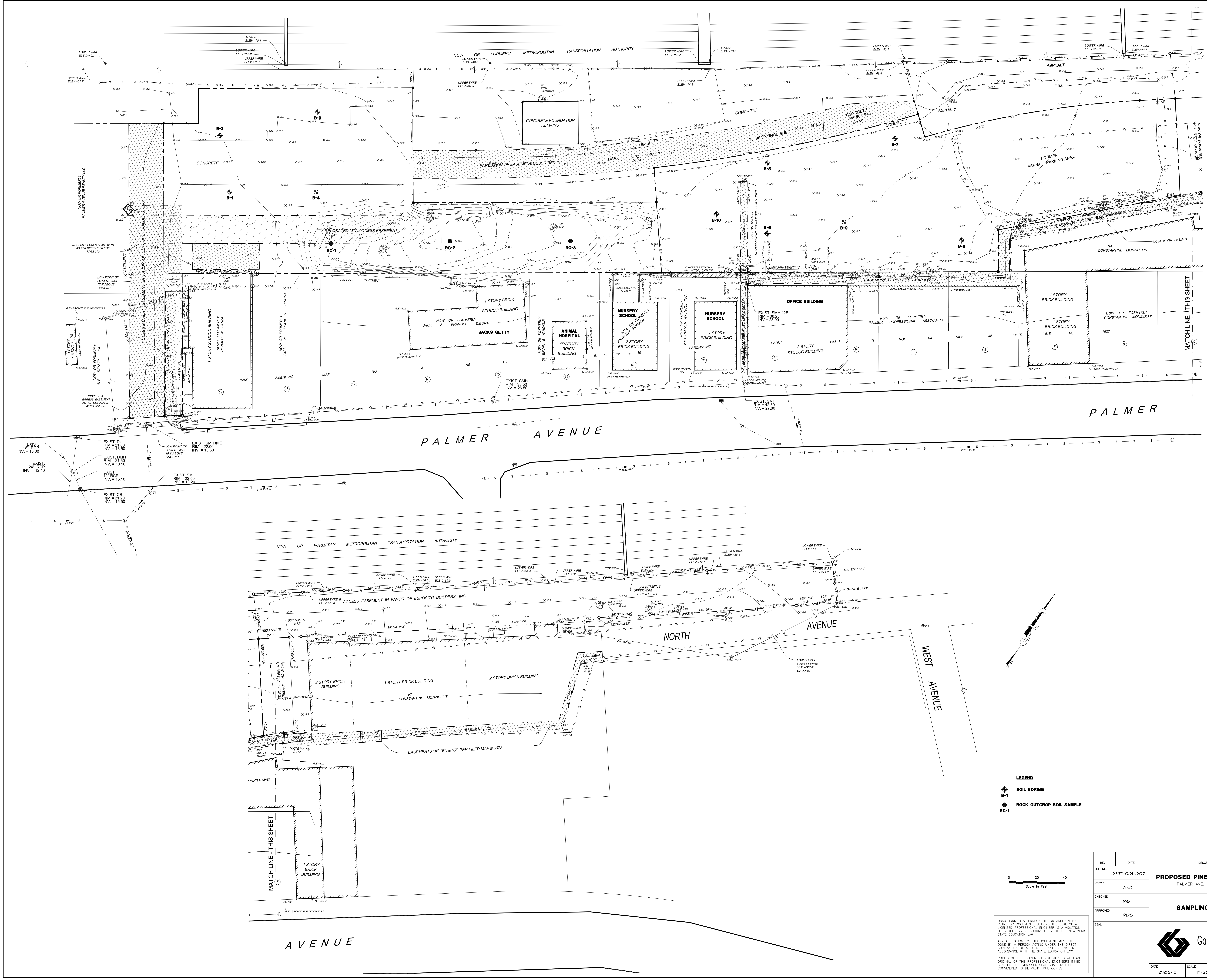
* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was



REV.	DATE	DESCRIPTION	BY

JOB NO. 0997-001-002

DRAWN AXC

CHECKED MG

APPROVED RDG

SEAL

PROPOSED PINEBROOK CONDOMINIUMS

PALMER AVE., LARCHMONT, N.Y. 10538

SAMPLING LOCATION MAP

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

DATE 10/02/13

SCALE 1"=20'

DRAWING NO. 1

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