PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 19, 2017

FOR: Attn: Mr. Robert Spiegel
Edison Wetlands Association
206 Tyler Road
Edison, NJ 08820

Sample Information		Custody Information		Date	Time
Matrix:	SURFACE WATER	Collected by:	RS	06/15/17	13:36
Location Code:	EDISON	Received by:	SW	06/15/17	17:05
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBY41251
Phoenix ID: BY41251

Project ID: RINGWOOD SW/SEEPS JUN 2017
Client ID: SW-1A-1F

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Aluminum	0.19	0.10		mg/L	1	06/16/17	LK	SW6010C
Antimony	< 0.006	0.006		mg/L	1	06/16/17	LK	SW6010C
Arsenic	< 0.003	0.003		mg/L	1	06/16/17	LK	SW6010C
Barium	0.070	0.020		mg/L	1	06/16/17	LK	SW6010C
Beryllium	< 0.001	0.001		mg/L	1	06/16/17	LK	SW6010C
Calcium	13.4	0.10		mg/L	1	06/16/17	LK	SW6010C
Cadmium	< 0.004	0.004		mg/L	1	06/16/17	LK	SW6010C
Chromium	< 0.010	0.010		mg/L	1	06/16/17	LK	SW6010C
Cobalt	< 0.020	0.020		mg/L	1	06/16/17	LK	SW6010C
Copper	< 0.050	0.050		mg/L	1	06/16/17	LK	SW6010C
Iron	19.6	0.10		mg/L	1	06/16/17	LK	E200.7
Lead	< 0.005	0.005		mg/L	1	06/16/17	LK	SW6010C
Magnesium	3.08	0.10		mg/L	1	06/16/17	LK	SW6010C
Manganese	0.319	0.010		mg/L	1	06/16/17	LK	SW6010C
Mercury	< 0.002	0.002		mg/L	1	06/16/17	RS	SW7470A
Nickel	< 0.010	0.010		mg/L	1	06/16/17	LK	SW6010C
Potassium	< 1.0	1.0		mg/L	1	06/16/17	LK	SW6010C
Selenium	< 0.04	0.04		mg/L	1	06/16/17	LK	SW6010C
Silver	< 0.010	0.010		mg/L	1	06/16/17	LK	SW6010C
Sodium	3.7	1.0		mg/L	1	06/16/17	LK	SW6010C
Thallium	< 0.002	0.002		mg/L	1	06/16/17	RS	SM3113B/SW7010-04
Vanadium	< 0.020	0.020		mg/L	1	06/16/17	LK	SW6010C
Zinc	< 0.020	0.020		mg/L	1	06/16/17	LK	SW6010C
Total Cyanide	< 0.010	0.010		mg/L	1	06/19/17	EG	SW9010C/SW9012B
Mercury Digestion	Completed					06/16/17	Q/W	SW7470A
PCB Extraction (2 Liter)	Completed					06/15/17	N/T	SW3510C
Extraction for Pest (2 Liter)	Completed					06/15/17	N/T	SW3510C
Semi-Volatile Extraction	Completed					06/15/17		SW3510C

Project ID: RINGWOOD SW/SEEPS JUN 2017 Phoenix I.D.: BY41251
Client ID: SW-1A-1F

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Metals Digestion	Completed					06/15/17	AG		
Pesticides									
4,4' -DDD	ND	0.005		ug/L	1	06/16/17	CW	SW8081B	
4,4' -DDE	ND	0.005		ug/L	1	06/16/17	CW	SW8081B	
4,4' -DDT	ND	0.005		ug/L	1	06/16/17	CW	SW8081B	
a-BHC	ND	0.005		ug/L	1	06/16/17	CW	SW8081B	
a-chlordane	ND	0.010		ug/L	1	06/16/17	CW	SW8081B	
Alachlor	ND	0.071		ug/L	1	06/16/17	CW	SW8081B	1
Aldrin	ND	0.001		ug/L	1	06/16/17	CW	SW8081B	
b-BHC	ND	0.005		ug/L	1	06/16/17	CW	SW8081B	
Chlordane	ND	0.047		ug/L	1	06/16/17	CW	SW8081B	
d-BHC	ND	0.005		ug/L	1	06/16/17	CW	SW8081B	
Dieldrin	ND	0.001		ug/L	1	06/16/17	CW	SW8081B	
Endosulfan I	ND	0.010		ug/L	1	06/16/17	CW	SW8081B	
Endosulfan II	ND	0.010		ug/L	1	06/16/17	CW	SW8081B	
Endosulfan Sulfate	ND	0.010		ug/L	1	06/16/17	CW	SW8081B	
Endrin	ND	0.010		ug/L	1	06/16/17	CW	SW8081B	
Endrin Aldehyde	ND	0.010		ug/L	1	06/16/17	CW	SW8081B	
Endrin ketone	ND	0.010		ug/L	1	06/16/17	CW	SW8081B	
g-BHC (Lindane)	ND	0.005		ug/L	1	06/16/17	CW	SW8081B	
g-chlordane	ND	0.010		ug/L	1	06/16/17	CW	SW8081B	
Heptachlor	ND	0.010		ug/L	1	06/16/17	CW	SW8081B	
Heptachlor epoxide	ND	0.010		ug/L	1	06/16/17	CW	SW8081B	
Methoxychlor	ND	0.095		ug/L	1	06/16/17	CW	SW8081B	
Toxaphene	ND	0.19		ug/L	1	06/16/17	CW	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	64			%	1	06/16/17	CW	SW8081B	
%TCMX (Surrogate Rec)	82			%	1	06/16/17	CW	SW8081B	
Polychlorinated Biphenyls									
PCB-1016	ND	0.047	0.047	ug/L	1	06/16/17	AW	E608/SW8082A	
PCB-1221	ND	0.047	0.047	ug/L	1	06/16/17	AW	E608/SW8082A	
PCB-1232	ND	0.047	0.047	ug/L	1	06/16/17	AW	E608/SW8082A	
PCB-1242	ND	0.047	0.047	ug/L	1	06/16/17	AW	E608/SW8082A	
PCB-1248	ND	0.047	0.047	ug/L	1	06/16/17	AW	E608/SW8082A	
PCB-1254	ND	0.047	0.047	ug/L	1	06/16/17	AW	E608/SW8082A	
PCB-1260	ND	0.047	0.047	ug/L	1	06/16/17	AW	E608/SW8082A	
PCB-1262	ND	0.047	0.047	ug/L	1	06/16/17	AW	E608/SW8082A	
PCB-1268	ND	0.047	0.047	ug/L	1	06/16/17	AW	E608/SW8082A	
QA/QC Surrogates									
% DCBP	79			%	1	06/16/17	AW	30 - 150 %	
% TCMX	74			%	1	06/16/17	AW	30 - 150 %	
Volatiles (TCL)									
1,1,1-Trichloroethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C	
1,1-Dichloroethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C	
1,1-Dichloroethene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,2,3-Trichlorobenzene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
1,2-Dibromoethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
1,2-Dichloroethane	ND	0.60		ug/L	1	06/15/17	MH	SW8260C
1,2-Dichloropropane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
2-Hexanone	ND	2.5		ug/L	1	06/15/17	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5		ug/L	1	06/15/17	MH	SW8260C
Acetone	ND	2.5		ug/L	1	06/15/17	MH	SW8260C
Benzene	ND	0.70		ug/L	1	06/15/17	MH	SW8260C
Bromochloromethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Bromodichloromethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Bromoform	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Bromomethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Carbon Disulfide	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Carbon tetrachloride	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Chlorobenzene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Chloroethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Chloroform	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Chloromethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40		ug/L	1	06/15/17	MH	SW8260C
Cyclohexane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Dibromochloromethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Dichlorodifluoromethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Ethylbenzene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Isopropylbenzene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
m&p-Xylene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Methyl ethyl ketone	ND	2.5		ug/L	1	06/15/17	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Methylacetate	ND	5.0		ug/L	1	06/15/17	MH	SW8260C
Methylcyclohexane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Methylene chloride	ND	3.0		ug/L	1	06/15/17	MH	SW8260C
o-Xylene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Styrene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Tetrachloroethene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Toluene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Total Xylenes	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40		ug/L	1	06/15/17	MH	SW8260C
Trichloroethene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Trichlorofluoromethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Vinyl chloride	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	100			%	1	06/15/17	MH	70 - 130 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% Bromofluorobenzene	95			%	1	06/15/17	MH	70 - 130 %	
% Dibromofluoromethane	92			%	1	06/15/17	MH	70 - 130 %	
% Toluene-d8	100			%	1	06/15/17	MH	70 - 130 %	
Volatile Library Search Top 10	Completed					06/16/17	MH		1
1,4-dioxane									
1,4-dioxane	0.83	0.20		ug/l	1	06/16/17	LA	SW8270DSIM	1
QA/QC Surrogates									
% 1,4-dioxane-d8	89			%	1	06/16/17	LA	30 - 130 %	
Semivolatiles									
1,1-Biphenyl	ND	0.90		ug/L	1	06/16/17	DD	SW8270D (SIM)	
1,2,4,5-Tetrachlorobenzene	ND	2.0		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Acenaphthylene	ND	0.30		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Atrazine	ND	3.0		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Benz(a)anthracene	ND	0.02		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Benzo(a)pyrene	ND	0.02		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Benzo(b)fluoranthene	ND	0.02		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Benzo(k)fluoranthene	ND	0.02		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Bis(2-ethylhexyl)phthalate	ND	2.0		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Chrysene	ND	0.02		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Dibenz(a,h)anthracene	ND	0.02		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Hexachlorobenzene	ND	0.02		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Hexachlorobutadiene	ND	0.50		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Hexachloroethane	ND	3.0		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	0.02		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Nitrobenzene	ND	0.2		ug/L	1	06/16/17	DD	SW8270D (SIM)	
N-Nitrosodimethylamine	ND	0.80		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Pentachlorophenol	ND	0.30		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Phenanthrene	ND	0.08		ug/L	1	06/16/17	DD	SW8270D (SIM)	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	114			%	1	06/16/17	DD	15 - 110 %	3
% 2-Fluorobiphenyl	73			%	1	06/16/17	DD	30 - 130 %	
% 2-Fluorophenol	52			%	1	06/16/17	DD	15 - 110 %	
% Nitrobenzene-d5	84			%	1	06/16/17	DD	30 - 130 %	
% Phenol-d5	39			%	1	06/16/17	DD	15 - 110 %	
% Terphenyl-d14	98			%	1	06/16/17	DD	30 - 130 %	
Semivolatiles									
2,3,4,6-tetrachlorophenol	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
2,4,5-Trichlorophenol	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
2,4,6-Trichlorophenol	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
2,4-Dichlorophenol	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
2,4-Dimethylphenol	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
2,4-Dinitrophenol	ND	3.5		ug/L	1	06/16/17	DD	SW8270D	
2,4-Dinitrotoluene	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
2,6-Dinitrotoluene	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
2-Chloronaphthalene	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
2-Chlorophenol	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	

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2-Methylnaphthalene	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
2-Methylphenol (o-cresol)	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
2-Nitroaniline	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
2-Nitrophenol	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
3,3'-Dichlorobenzidine	ND	10		ug/L	1	06/16/17	DD	SW8270D	
3-Nitroaniline	ND	10		ug/L	1	06/16/17	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND	10		ug/L	1	06/16/17	DD	SW8270D	
4-Bromophenyl phenyl ether	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
4-Chloro-3-methylphenol	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
4-Chloroaniline	ND	10		ug/L	1	06/16/17	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
4-Nitroaniline	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
4-Nitrophenol	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
Acenaphthene	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
Acetophenone	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
Anthracene	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
Benzaldehyde	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
Benzo(ghi)perylene	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
Benzyl butyl phthalate	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
Bis(2-chloroethyl)ether	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
Caprolactam	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
Carbazole	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
Dibenzofuran	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
Diethyl phthalate	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
Dimethylphthalate	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
Di-n-butylphthalate	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
Di-n-octylphthalate	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
Fluoranthene	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
Fluorene	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
Hexachlorocyclopentadiene	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
Isophorone	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
Naphthalene	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
N-Nitrosodiphenylamine	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
Phenol	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
Pyrene	ND	5.0		ug/L	1	06/16/17	DD	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	114			%	1	06/16/17	DD	15 - 110 %	3
% 2-Fluorobiphenyl	73			%	1	06/16/17	DD	30 - 130 %	
% 2-Fluorophenol	52			%	1	06/16/17	DD	15 - 110 %	
% Nitrobenzene-d5	84			%	1	06/16/17	DD	30 - 130 %	
% Phenol-d5	39			%	1	06/16/17	DD	15 - 110 %	
% Terphenyl-d14	98			%	1	06/16/17	DD	30 - 130 %	
Extraction for 1,4-Dioxane	Completed					06/16/17	C/C		
SVOA Library Search Top 15	Completed					06/16/17	DD		

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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:
One of the surrogate recoveries was above the upper range due to sample matrix interference. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
June 19, 2017
Official Report Release To Follow

PHOENIX

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 19, 2017

FOR: Attn: Mr. Robert Spiegel
Edison Wetlands Association
206 Tyler Road
Edison, NJ 08820

Sample Information		Custody Information		Date	Time
Matrix:	SURFACE WATER	Collected by:	RS	06/15/17	13:36
Location Code:	EDISON	Received by:	SW	06/15/17	17:05
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBY41251
Phoenix ID: BY41252

Project ID: RINGWOOD SW/SEEPS JUN 2017
Client ID: SW-2A-2F

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Aluminum	0.15	0.10		mg/L	1	06/16/17	LK	SW6010C
Antimony	< 0.006	0.006		mg/L	1	06/16/17	LK	SW6010C
Arsenic	< 0.003	0.003		mg/L	1	06/16/17	LK	SW6010C
Barium	0.092	0.020		mg/L	1	06/16/17	LK	SW6010C
Beryllium	< 0.001	0.001		mg/L	1	06/16/17	LK	SW6010C
Calcium	15.3	0.10		mg/L	1	06/16/17	LK	SW6010C
Cadmium	< 0.004	0.004		mg/L	1	06/16/17	LK	SW6010C
Chromium	< 0.010	0.010		mg/L	1	06/16/17	LK	SW6010C
Cobalt	< 0.020	0.020		mg/L	1	06/16/17	LK	SW6010C
Copper	< 0.050	0.050		mg/L	1	06/16/17	LK	SW6010C
Iron	22.0	0.10		mg/L	1	06/16/17	LK	E200.7
Lead	< 0.005	0.005		mg/L	1	06/16/17	LK	SW6010C
Magnesium	3.20	0.10		mg/L	1	06/16/17	LK	SW6010C
Manganese	0.516	0.010		mg/L	1	06/16/17	LK	SW6010C
Mercury	< 0.002	0.002		mg/L	1	06/16/17	RS	SW7470A
Nickel	< 0.010	0.010		mg/L	1	06/16/17	LK	SW6010C
Potassium	< 1.0	1.0		mg/L	1	06/16/17	LK	SW6010C
Selenium	< 0.04	0.04		mg/L	1	06/16/17	LK	SW6010C
Silver	< 0.010	0.010		mg/L	1	06/16/17	LK	SW6010C
Sodium	3.5	1.0		mg/L	1	06/16/17	LK	SW6010C
Thallium	< 0.002	0.002		mg/L	1	06/16/17	RS	SM3113B/SW7010-04
Vanadium	< 0.020	0.020		mg/L	1	06/16/17	LK	SW6010C
Zinc	< 0.020	0.020		mg/L	1	06/16/17	LK	SW6010C
Total Cyanide	< 0.1	0.1		mg/L	50	06/16/17	O/GD	SW9010C/SW9012B
Mercury Digestion	Completed					06/16/17	Q/W	SW7470A
PCB Extraction (2 Liter)	Completed					06/15/17	N/T	SW3510C
Extraction for Pest (2 Liter)	Completed					06/15/17	N/T	SW3510C
Semi-Volatile Extraction	Completed					06/15/17		SW3510C

Project ID: RINGWOOD SW/SEEPS JUN 2017 Phoenix I.D.: BY41252
Client ID: SW-2A-2F

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Metals Digestion	Completed					06/15/17	AG		
Pesticides									
4,4' -DDD	ND	0.005		ug/L	1	06/16/17	CW	SW8081B	
4,4' -DDE	ND	0.005		ug/L	1	06/16/17	CW	SW8081B	
4,4' -DDT	ND	0.015		ug/L	1	06/16/17	CW	SW8081B	
a-BHC	ND	0.005		ug/L	1	06/16/17	CW	SW8081B	
a-chlordane	ND	0.010		ug/L	1	06/16/17	CW	SW8081B	
Alachlor	ND	0.072		ug/L	1	06/16/17	CW	SW8081B	1
Aldrin	ND	0.001		ug/L	1	06/16/17	CW	SW8081B	
b-BHC	ND	0.005		ug/L	1	06/16/17	CW	SW8081B	
Chlordane	ND	0.048		ug/L	1	06/16/17	CW	SW8081B	
d-BHC	ND	0.005		ug/L	1	06/16/17	CW	SW8081B	
Dieldrin	ND	0.003		ug/L	1	06/16/17	CW	SW8081B	
Endosulfan I	ND	0.010		ug/L	1	06/16/17	CW	SW8081B	
Endosulfan II	ND	0.010		ug/L	1	06/16/17	CW	SW8081B	
Endosulfan Sulfate	ND	0.010		ug/L	1	06/16/17	CW	SW8081B	
Endrin	ND	0.010		ug/L	1	06/16/17	CW	SW8081B	
Endrin Aldehyde	ND	0.010		ug/L	1	06/16/17	CW	SW8081B	
Endrin ketone	ND	0.010		ug/L	1	06/16/17	CW	SW8081B	
g-BHC (Lindane)	ND	0.005		ug/L	1	06/16/17	CW	SW8081B	
g-chlordane	ND	0.010		ug/L	1	06/16/17	CW	SW8081B	
Heptachlor	ND	0.010		ug/L	1	06/16/17	CW	SW8081B	
Heptachlor epoxide	ND	0.010		ug/L	1	06/16/17	CW	SW8081B	
Methoxychlor	ND	0.096		ug/L	1	06/16/17	CW	SW8081B	
Toxaphene	ND	0.19		ug/L	1	06/16/17	CW	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	52			%	1	06/16/17	CW	SW8081B	
%TCMX (Surrogate Rec)	74			%	1	06/16/17	CW	SW8081B	
Polychlorinated Biphenyls									
PCB-1016	ND	0.048	0.048	ug/L	1	06/16/17	AW	E608/SW8082A	
PCB-1221	ND	0.048	0.048	ug/L	1	06/16/17	AW	E608/SW8082A	
PCB-1232	ND	0.048	0.048	ug/L	1	06/16/17	AW	E608/SW8082A	
PCB-1242	ND	0.048	0.048	ug/L	1	06/16/17	AW	E608/SW8082A	
PCB-1248	ND	0.048	0.048	ug/L	1	06/16/17	AW	E608/SW8082A	
PCB-1254	ND	0.048	0.048	ug/L	1	06/16/17	AW	E608/SW8082A	
PCB-1260	ND	0.048	0.048	ug/L	1	06/16/17	AW	E608/SW8082A	
PCB-1262	ND	0.048	0.048	ug/L	1	06/16/17	AW	E608/SW8082A	
PCB-1268	ND	0.048	0.048	ug/L	1	06/16/17	AW	E608/SW8082A	
QA/QC Surrogates									
% DCBP	73			%	1	06/16/17	AW	30 - 150 %	
% TCMX	67			%	1	06/16/17	AW	30 - 150 %	
Volatiles (TCL)									
1,1,1-Trichloroethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C	
1,1-Dichloroethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C	
1,1-Dichloroethene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C	

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Client ID: SW-2A-2F

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,2,3-Trichlorobenzene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
1,2-Dibromoethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
1,2-Dichloroethane	ND	0.60		ug/L	1	06/15/17	MH	SW8260C
1,2-Dichloropropane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
2-Hexanone	ND	2.5		ug/L	1	06/15/17	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5		ug/L	1	06/15/17	MH	SW8260C
Acetone	ND	2.5		ug/L	1	06/15/17	MH	SW8260C
Benzene	ND	0.70		ug/L	1	06/15/17	MH	SW8260C
Bromochloromethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Bromodichloromethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Bromoform	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Bromomethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Carbon Disulfide	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Carbon tetrachloride	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Chlorobenzene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Chloroethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Chloroform	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Chloromethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40		ug/L	1	06/15/17	MH	SW8260C
Cyclohexane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Dibromochloromethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Dichlorodifluoromethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Ethylbenzene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Isopropylbenzene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
m&p-Xylene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Methyl ethyl ketone	ND	2.5		ug/L	1	06/15/17	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Methylacetate	ND	5.0		ug/L	1	06/15/17	MH	SW8260C
Methylcyclohexane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Methylene chloride	ND	3.0		ug/L	1	06/15/17	MH	SW8260C
o-Xylene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Styrene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Tetrachloroethene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Toluene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Total Xylenes	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40		ug/L	1	06/15/17	MH	SW8260C
Trichloroethene	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Trichlorofluoromethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
Vinyl chloride	ND	1.0		ug/L	1	06/15/17	MH	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	100			%	1	06/15/17	MH	70 - 130 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% Bromofluorobenzene	95			%	1	06/15/17	MH	70 - 130 %	
% Dibromofluoromethane	93			%	1	06/15/17	MH	70 - 130 %	
% Toluene-d8	100			%	1	06/15/17	MH	70 - 130 %	
Volatile Library Search Top 10	Completed					06/16/17	MH		1
1,4-dioxane									
1,4-dioxane	1.1	0.20		ug/l	1	06/16/17	LA	SW8270DSIM	1
QA/QC Surrogates									
% 1,4-dioxane-d8	86			%	1	06/16/17	LA	30 - 130 %	
Semivolatiles									
1,1-Biphenyl	ND	0.90		ug/L	1	06/16/17	DD	SW8270D (SIM)	
1,2,4,5-Tetrachlorobenzene	ND	2.0		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Acenaphthylene	ND	0.30		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Atrazine	ND	3.0		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Benz(a)anthracene	ND	0.02		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Benzo(a)pyrene	ND	0.02		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Benzo(b)fluoranthene	ND	0.02		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Benzo(k)fluoranthene	ND	0.02		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Bis(2-ethylhexyl)phthalate	ND	2.0		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Chrysene	ND	0.02		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Dibenz(a,h)anthracene	ND	0.02		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Hexachlorobenzene	ND	0.02		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Hexachlorobutadiene	ND	0.50		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Hexachloroethane	ND	3.0		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	0.02		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Nitrobenzene	ND	0.2		ug/L	1	06/16/17	DD	SW8270D (SIM)	
N-Nitrosodimethylamine	ND	0.80		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Pentachlorophenol	ND	0.30		ug/L	1	06/16/17	DD	SW8270D (SIM)	
Phenanthrene	ND	0.08		ug/L	1	06/16/17	DD	SW8270D (SIM)	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	113			%	1	06/16/17	DD	15 - 110 %	3
% 2-Fluorobiphenyl	68			%	1	06/16/17	DD	30 - 130 %	
% 2-Fluorophenol	46			%	1	06/16/17	DD	15 - 110 %	
% Nitrobenzene-d5	77			%	1	06/16/17	DD	30 - 130 %	
% Phenol-d5	35			%	1	06/16/17	DD	15 - 110 %	
% Terphenyl-d14	100			%	1	06/16/17	DD	30 - 130 %	
Semivolatiles									
2,3,4,6-tetrachlorophenol	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
2,4,5-Trichlorophenol	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
2,4,6-Trichlorophenol	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
2,4-Dichlorophenol	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
2,4-Dimethylphenol	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
2,4-Dinitrophenol	ND	3.3		ug/L	1	06/16/17	DD	SW8270D	
2,4-Dinitrotoluene	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
2,6-Dinitrotoluene	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
2-Chloronaphthalene	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
2-Chlorophenol	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2-Methylnaphthalene	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
2-Methylphenol (o-cresol)	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
2-Nitroaniline	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
2-Nitrophenol	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
3,3'-Dichlorobenzidine	ND	9.4		ug/L	1	06/16/17	DD	SW8270D	
3-Nitroaniline	ND	9.4		ug/L	1	06/16/17	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND	9.4		ug/L	1	06/16/17	DD	SW8270D	
4-Bromophenyl phenyl ether	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
4-Chloro-3-methylphenol	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
4-Chloroaniline	ND	9.4		ug/L	1	06/16/17	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
4-Nitroaniline	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
4-Nitrophenol	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
Acenaphthene	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
Acetophenone	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
Anthracene	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
Benzaldehyde	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
Benzo(ghi)perylene	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
Benzyl butyl phthalate	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
Bis(2-chloroethyl)ether	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
Caprolactam	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
Carbazole	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
Dibenzofuran	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
Diethyl phthalate	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
Dimethylphthalate	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
Di-n-butylphthalate	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
Di-n-octylphthalate	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
Fluoranthene	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
Fluorene	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
Hexachlorocyclopentadiene	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
Isophorone	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
Naphthalene	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
N-Nitrosodiphenylamine	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
Phenol	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
Pyrene	ND	4.7		ug/L	1	06/16/17	DD	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	113			%	1	06/16/17	DD	15 - 110 %	3
% 2-Fluorobiphenyl	68			%	1	06/16/17	DD	30 - 130 %	
% 2-Fluorophenol	46			%	1	06/16/17	DD	15 - 110 %	
% Nitrobenzene-d5	77			%	1	06/16/17	DD	30 - 130 %	
% Phenol-d5	35			%	1	06/16/17	DD	15 - 110 %	
% Terphenyl-d14	100			%	1	06/16/17	DD	30 - 130 %	
Extraction for 1,4-Dioxane	Completed					06/16/17	C/C		
SVOA Library Search Top 15	Completed					06/16/17	DD		

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:
One of the surrogate recoveries was above the upper range due to sample matrix interference. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

Pesticide Comment:
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 affected compounds.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
June 19, 2017
Official Report Release To Follow

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
SW-1A-1F

Lab Name: Phoenix Environmental Labs Client: EDISON

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY41251

Matrix:(soil/water) WATER Lab Sample ID: BY41251

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0615P35.D

Level: (low/med) Date Received: 06/15/17

% Moisture: not dec. 100 Date Analyzed: 06/15/17

GC Column: rtx-vms ID: 0.18 (mm) Dilution Factor: 1

Purge Volume 25000 (uL) Soil Aliquot Vol (uL): n.a.

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
SW-2A-2F

Lab Name: Phoenix Environmental Labs Client: EDISON

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY41251

Matrix:(soil/water) WATER Lab Sample ID: BY41252

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0615P36.D

Level: (low/med) Date Received: 06/15/17

% Moisture: not dec. 100 Date Analyzed: 06/15/17

GC Column: rtx-vms ID: 0.18 (mm) Dilution Factor: 1

Purge Volume 25000 (uL) Soil Aliquot Vol (uL): n.a.

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

SW-1A-1F

Lab Name: Phoenix Environmental Labs Client: EDISON

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY41251

Matrix:(soil/water) WATER Lab Sample ID: BY41251

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 0616_09.D

Level: (low/med) Low Date Received: 06/15/17

% Moisture: not dec. 100 decanted:(Y/N) NA Date Extracted: 06/16/17

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 6/16/2017

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 2 (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

SW-2A-2F

Lab Name: Phoenix Environmental Labs Client: EDISON

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY41251

Matrix:(soil/water) WATER Lab Sample ID: BY41252

Sample wt/vol: 1060 (g/mL) mL Lab File ID: 0616_10.D

Level: (low/med) Low Date Received: 06/15/17

% Moisture: not dec. 100 decanted:(Y/N) NA Date Extracted: 06/16/17

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 6/16/2017

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 2 (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.

Sample Criteria Exceedances Report

GBY41251 - EDISON

Criteria: NJ: GW, NRC, RC
State: NJ

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BY41251	$8260_TCLR	1,2-Dibromoethane	NJ / Ground Water / GW Class IIA	ND	1.0	0.0004	0.03	ug/L
BY41251	$8260_TCLR	1,2-Dibromo-3-chloropropane	NJ / Ground Water / GW Class IIA	ND	1.0	0.02	0.02	ug/L
BY41251	FE-WM	Iron	NJ / Ground Water / GW Class IIA	19.6	0.10	0.3	0.02	mg/L
BY41251	MN-WM	Manganese	NJ / Ground Water / GW Class IIA	0.319	0.010	0.05	0.0004	mg/L
BY41252	$8260_TCLR	1,2-Dibromoethane	NJ / Ground Water / GW Class IIA	ND	1.0	0.0004	0.03	ug/L
BY41252	$8260_TCLR	1,2-Dibromo-3-chloropropane	NJ / Ground Water / GW Class IIA	ND	1.0	0.02	0.02	ug/L
BY41252	FE-WM	Iron	NJ / Ground Water / GW Class IIA	22.0	0.10	0.3	0.02	mg/L
BY41252	MN-WM	Manganese	NJ / Ground Water / GW Class IIA	0.516	0.010	0.05	0.0004	mg/L

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [X] No [ ]
Temp 3.4 C Pg 1 of 2

PHOENIX Environmental Laboratories, Inc.

NY/NJ CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
[X] Fax: (732) 372-9866
[X] Phone: (732) 321-1300
[X] Email: rspiegel@edisonwetlands.org

Customer: Edison Wetlands Association, Inc.
Address: 206 Tyler Road, Edison, NJ 08820

Project: Ringwood SW/Seeps Jun. 2017
Report to: Robert Spiegel
Invoice to: Robert Spiegel

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Robert Spiegel Date: 6.15.17

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
OIL=Oil B=Bulk L=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	8270 SIM SVOCs + 1,4-dioxane	PCBs 8082	Cyanide	TAL Metals	TCL VOCs	Pesticides 8081	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [✓] HCl	GL Amber 1000ml [✓] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
41251	SW-1A	SW	6/15/17	12:08 pm	X									X						
	SW-1B	SW	6/15/17	12:09 pm		X								X						
	SW-1C	SW	6/15/17	12:11 pm			X											X		
	SW-1D	SW	6/15/17	12:12 pm				X									X			
	SW-1E	SW	6/15/17	12:12 pm					X						X					
	SW-1F	SW	6/15/17	12:13 pm						X				X						
41252	SW-2A	SW	6/15/17	1:31 pm	X									X						
	SW-2B	SW	6/15/17	1:32 pm		X								X						
	SW-2C	SW	6/15/17	1:32 pm			X											X		
	SW-2D	SW	6/15/17	1:33 pm				X									X			
	SW-2E	SW	6/15/17	1:34 pm					X						X					

Relinquished by:	Accepted by:	Date:	Time:
Robert Spiegel	[signature]	6.15.17	2:15 pm
[signature]	[signature]	6/15/17	17:05

Comments, Special Requirements or Regulations:
ENSURE 1,4-dioxane and benzene are sampled for

Turnaround:
[X] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[ ] 5 Days
[ ] 10 Days
[ ] Other
* SURCHARGE APPLIES

NJ
[X] Res. Criteria
[X] Non-Res. Criteria
[ ] Impact to GW Soil Cleanup Criteria
[ ] GW Criteria

NY
[ ] TAGM 4046 GW
[ ] TAGM 4046 SOIL
[ ] NY375 Unrestricted Use Soil
[ ] NY375 Residential Soil
[ ] Restricted/Residential
[ ] Commercial
[ ] Industrial

Data Format
[X] Phoenix Std Report
[ ] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] NJ Hazsite EDD
[ ] NY EZ EDD (ASP)
[ ] Other _____

Data Package
[ ] NJ Reduced Deliv. *
[ ] NY Enhanced (ASP B) *
[ ] Other

State where samples were collected: NJ

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] No [ ]
Temp 2.6°C Pg 2 of 2

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NY/NJ CHAIN OF CUSTODY RECORD

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Customer: Edison Wetlands Association, Inc.
Address: 2016 Tyler Road, Edison, NJ 08820

Project: Ringwood SW/Seeps Jun. 2017
Report to: Robert Spiegel
Invoice to: Robert Spiegel

Project P.O.:

This section MUST be completed with Bottle Quantities.

Sampler's Signature: Robert Spiegel Date: 6.15.17

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Client Sample - Information - Identification

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Pesticides 8081	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [X] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
41252	SW-2F	SW	6/15/17	1:36pm	X					X					

Relinquished by:	Accepted by:	Date:	Time:
Robert Spiegel	[signature]	6.15.17	2:15pm
[signature]	THOUM	6/15/17	17:05

Comments, Special Requirements or Regulations:

Turnaround:
[X] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[ ] 5 Days
[ ] 10 Days
[ ] Other
* SURCHARGE APPLIES

NJ
[X] Res. Criteria
[X] Non-Res. Criteria
[ ] Impact to GW Soil Cleanup Criteria
[ ] GW Criteria

NY
[ ] TAGM 4046 GW
[ ] TAGM 4046 SOIL
[ ] NY375 Unrestricted Use Soil
[ ] NY375 Residential Soil
[ ] Restricted/Residential
[ ] Commercial
[ ] Industrial

Data Format
[X] Phoenix Std Report
[ ] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] NJ Hazsite EDD
[ ] NY EZ EDD (ASP)
[ ] Other

Data Package
[ ] NJ Reduced Deliv. *
[ ] NY Enhanced (ASP B) *
[ ] Other

State where samples were collected: NJ

Bobbi Aloisa

From: shannon@edisonwetlands.org
Sent: Friday, June 16, 2017 2:08 PM
To: Bobbi Aloisa
Subject: RE: What criteria is needed on these rushes?

Importance: High

Hi Bobbi,

GW criteria is needed-- thanks.

Shannon Lisa
Program Director
Edison Wetlands Association
Tel: 732-321-1300
Fax: 732-372-7866

> -------- Original Message --------
> Subject: What criteria is needed on these rushes?
> From: Bobbi Aloisa <bobbi@phoenixlabs.com>
> Date: Fri, June 16, 2017 1:54 pm
> To: "shannon@edisonwetlands.org" <shannon@edisonwetlands.org>,
> "rspiegel@edisonwetlands.org" <rspiegel@edisonwetlands.org>
>
> HI
> Can you tell me what criteria is needed on these rushes, the ones you checked off are for soil and not water
>
> TY
>
> Bobbi Aloisa
> Vice President
> Director of Client Services
> Phoenix Environmental Laboratories
> 587 East Middle Turnpike
> Manchester, CT 06040
> Ph: 860-645-8728