



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 14, 2023

FOR: Attn: Mr Julian Heal
 The Ambient Group
 2515 Glassboro Cross Keys Road
 Williamstown, NJ 08094

Sample Information

Matrix: SOIL
 Location Code: AMB-NJ
 Rush Request: 5 Day
 P.O.#:

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date Time
 02/07/23 12:30
 02/08/23 16:58

Laboratory Data

SDG ID: GCN39052
 Phoenix ID: CN39052

Project ID: CRA 1112-1114 S 6TH ST
 Client ID: WC-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	02/09/23	CPP	SW6010D
Aluminum	11200	59	mg/Kg	10	02/09/23	CPP	SW6010D
Arsenic	5.46	0.78	mg/Kg	1	02/09/23	CPP	SW6010D
Barium	123	0.39	mg/Kg	1	02/09/23	CPP	SW6010D
Beryllium	0.56	0.31	mg/Kg	1	02/09/23	CPP	SW6010D
Cadmium	1.33	0.39	mg/Kg	1	02/09/23	CPP	SW6010D
Cobalt	7.96	0.39	mg/Kg	1	02/09/23	CPP	SW6010D
Copper	47.9	0.8	mg/kg	1	02/09/23	CPP	SW6010D
Mercury	0.38	0.03	mg/Kg	2	02/09/23	PM	SW7471B
Manganese	298	3.9	mg/Kg	10	02/09/23	CPP	SW6010D
Nickel	14.0	0.39	mg/Kg	1	02/09/23	CPP	SW6010D
Lead	173	3.9	mg/Kg	10	02/09/23	CPP	SW6010D
Antimony	< 3.9	3.9	mg/Kg	1	02/09/23	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	02/09/23	CPP	SW6010D
Thallium	< 3.5	3.5	mg/Kg	1	02/09/23	CPP	SW6010D
Vanadium	30.0	0.39	mg/Kg	1	02/09/23	CPP	SW6010D
Zinc	143	0.8	mg/Kg	1	02/09/23	CPP	SW6010D
Percent Solid	85		%		02/08/23	k	SW846-%Solid
Total Cyanide (SW9010C Distill.)	< 0.59	0.59	mg/Kg	1	02/10/23	CL/GD	SW9012B
Soil Extraction for PCB	Completed				02/09/23	C/M	SW3545A
Soil Extraction for Pesticide	Completed				02/09/23	C/M	SW3545A
Mercury Digestion	Completed				02/09/23	W/W	SW7471B
Soil Extraction for SVOA	Completed				02/09/23	MO/F	SW3546
Total Metals Digest	Completed				02/08/23	J/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016 ND 190 ug/Kg 5 02/10/23 SC SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1221	ND	190	ug/Kg	5	02/10/23	SC	SW8082A
PCB-1232	ND	190	ug/Kg	5	02/10/23	SC	SW8082A
PCB-1242	ND	190	ug/Kg	5	02/10/23	SC	SW8082A
PCB-1248	ND	190	ug/Kg	5	02/10/23	SC	SW8082A
PCB-1254	ND	190	ug/Kg	5	02/10/23	SC	SW8082A
PCB-1260	ND	190	ug/Kg	5	02/10/23	SC	SW8082A
PCB-1262	ND	190	ug/Kg	5	02/10/23	SC	SW8082A
PCB-1268	ND	190	ug/Kg	5	02/10/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	75		%	5	02/10/23	SC	30 - 150 %
% DCBP (Confirmation)	69		%	5	02/10/23	SC	30 - 150 %
% TCMX	60		%	5	02/10/23	SC	30 - 150 %
% TCMX (Confirmation)	63		%	5	02/10/23	SC	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.3	ug/Kg	2	02/10/23	AW	SW8081B
4,4' -DDE	ND	10	ug/Kg	2	02/10/23	AW	SW8081B
4,4' -DDT	34	2.3	ug/Kg	2	02/10/23	AW	SW8081B
a-BHC	ND	7.7	ug/Kg	2	02/10/23	AW	SW8081B
a-Chlordane	25	3.9	ug/Kg	2	02/10/23	AW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	02/10/23	AW	SW8081B
b-BHC	ND	7.7	ug/Kg	2	02/10/23	AW	SW8081B
Chlordane	130	39	ug/Kg	2	02/10/23	AW	SW8081B
d-BHC	ND	7.7	ug/Kg	2	02/10/23	AW	SW8081B
Dieldrin	9.9	3.9	ug/Kg	2	02/10/23	AW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	02/10/23	AW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	02/10/23	AW	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	02/10/23	AW	SW8081B
Endrin	ND	7.7	ug/Kg	2	02/10/23	AW	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	02/10/23	AW	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	02/10/23	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	02/10/23	AW	SW8081B
g-Chlordane	20	3.9	ug/Kg	2	02/10/23	AW	SW8081B
Heptachlor	ND	7.7	ug/Kg	2	02/10/23	AW	SW8081B
Heptachlor epoxide	9.9	7.7	ug/Kg	2	02/10/23	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	02/10/23	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	02/10/23	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	67		%	2	02/10/23	AW	30 - 150 %
% DCBP (Confirmation)	60		%	2	02/10/23	AW	30 - 150 %
% TCMX	58		%	2	02/10/23	AW	30 - 150 %
% TCMX (Confirmation)	61		%	2	02/10/23	AW	30 - 150 %
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	02/09/23	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,4-Dichlorophenol	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
2,4-Dinitrophenol	ND	610	ug/Kg	1	02/09/23	WB	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
2-Nitroaniline	ND	610	ug/Kg	1	02/09/23	WB	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	02/09/23	WB	SW8270D
3,3'-Dichlorobenzidine	ND	460	ug/Kg	1	02/09/23	WB	SW8270D
3-Nitroaniline	ND	610	ug/Kg	1	02/09/23	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	02/09/23	WB	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	02/09/23	WB	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
4-Nitroaniline	ND	610	ug/Kg	1	02/09/23	WB	SW8270D
4-Nitrophenol	ND	1100	ug/Kg	1	02/09/23	WB	SW8270D
Acenaphthene	320	270	ug/Kg	1	02/09/23	WB	SW8270D
Acenaphthylene	350	270	ug/Kg	1	02/09/23	WB	SW8270D
Acetophenone	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
Anthracene	1100	270	ug/Kg	1	02/09/23	WB	SW8270D
Atrazine	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
Benz(a)anthracene	3900	270	ug/Kg	1	02/09/23	WB	SW8270D
Benzaldehyde	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
Benzo(a)pyrene	3400	270	ug/Kg	1	02/09/23	WB	SW8270D
Benzo(b)fluoranthene	4100	270	ug/Kg	1	02/09/23	WB	SW8270D
Benzo(ghi)perylene	1700	270	ug/Kg	1	02/09/23	WB	SW8270D
Benzo(k)fluoranthene	1300	270	ug/Kg	1	02/09/23	WB	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	02/09/23	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
Caprolactam	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
Carbazole	390	380	ug/Kg	1	02/09/23	WB	SW8270D
Chrysene	3700	270	ug/Kg	1	02/09/23	WB	SW8270D
Dibenz(a,h)anthracene	510	190	ug/Kg	1	02/09/23	WB	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
Di-n-butylphthalate	ND	770	ug/Kg	1	02/09/23	WB	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
Fluoranthene	7600	270	ug/Kg	1	02/09/23	WB	SW8270D
Fluorene	340	270	ug/Kg	1	02/09/23	WB	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	02/09/23	WB	SW8270D

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Hexachlorocyclopentadiene	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
Indeno(1,2,3-cd)pyrene	1900	270	ug/Kg	1	02/09/23	WB	SW8270D
Isophorone	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	02/09/23	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	170	ug/Kg	1	02/09/23	WB	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	02/09/23	WB	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	02/09/23	WB	SW8270D
Phenanthrene	4800	270	ug/Kg	1	02/09/23	WB	SW8270D
Phenol	ND	270	ug/Kg	1	02/09/23	WB	SW8270D
Pyrene	6500	270	ug/Kg	1	02/09/23	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	72		%	1	02/09/23	WB	30 - 130 %
% 2-Fluorobiphenyl	65		%	1	02/09/23	WB	30 - 130 %
% 2-Fluorophenol	62		%	1	02/09/23	WB	30 - 130 %
% Nitrobenzene-d5	65		%	1	02/09/23	WB	30 - 130 %
% Phenol-d5	68		%	1	02/09/23	WB	30 - 130 %
% Terphenyl-d14	73		%	1	02/09/23	WB	30 - 130 %
1,2-Diphenylhydrazine	ND	380	ug/Kg	1	02/09/23	WB	SW8270D
Benzidine	ND	380	ug/Kg	1	02/09/23	WB	SW8270D
2,3,7,8- Dioxin (TCDD) Screen	Absent		ug/kg	1	02/14/23	WB	E625 MOD
SVOA Library Search Top 15	Completed				02/14/23	MR	

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

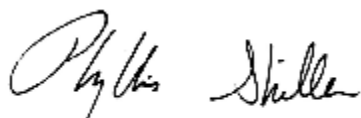
Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Semi-Volatile Comment:

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

February 14, 2023

Official Report Release To Follow



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Matrix: SOIL
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 Rush Request: 5 Day
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Custody Information

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 Received by: CP
 Analyzed by: see "By" below

Date

02/07/23
 02/08/23

Time

12:35
 16:58

Laboratory Data

SDG ID: GCN39052
 Phoenix ID: CN39053

Project ID: CRA 1112-1114 S 6TH ST
 Client ID: WC-1V

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Encore Supplied	Completed				02/07/23		
<u>Volatiles (TCL)</u>							
1,1,1-Trichloroethane	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
1,2-Dibromoethane	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
2-Hexanone	ND	25	ug/kg	1	02/09/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/kg	1	02/09/23	JLI	SW8260C
Acetone	ND	50	ug/kg	1	02/09/23	JLI	SW8260C
Benzene	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
Bromochloromethane	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
Bromodichloromethane	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
Bromoform	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
Bromomethane	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
Carbon Disulfide	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
Carbon tetrachloride	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chlorobenzene	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
Chloroethane	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
Chloroform	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
Chloromethane	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
Cyclohexane	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
Dibromochloromethane	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
Ethylbenzene	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
Isopropylbenzene	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
m&p-Xylene	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
Methyl ethyl ketone	ND	30	ug/kg	1	02/09/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.9	ug/kg	1	02/09/23	JLI	SW8260C
Methylacetate	ND	4.0	ug/kg	1	02/09/23	JLI	SW8260C
Methylcyclohexane	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
Methylene chloride	ND	25	ug/kg	1	02/09/23	JLI	SW8260C
o-Xylene	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
Styrene	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
Tetrachloroethene	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
Toluene	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
Total Xylenes	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
Trichloroethene	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
Vinyl chloride	ND	5.0	ug/kg	1	02/09/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	1	02/09/23	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	02/09/23	JLI	70 - 130 %
% Dibromofluoromethane	92		%	1	02/09/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	02/09/23	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	74	ug/kg	1	02/09/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	1	02/09/23	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	02/09/23	JLI	70 - 130 %
% Dibromofluoromethane	92		%	1	02/09/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	02/09/23	JLI	70 - 130 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	20	ug/Kg	1	02/09/23	JLI	SW8260C
Acrolein	ND	5.0	ug/Kg	1	02/09/23	JLI	SW8260C
Acrylonitrile	ND	20	ug/Kg	1	02/09/23	JLI	SW8260C
Tert-butyl alcohol	ND	99	ug/Kg	1	02/09/23	JLI	SW8260C
Volatile Library Search Top 10	Completed				02/09/23	JLI	

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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

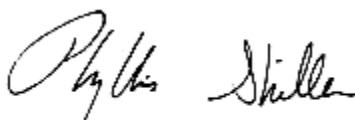
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

February 14, 2023

Official Report Release To Follow

Criteria: NJ: NRC, RC

State: NJ

Sample Criteria Exceedances Report

GCN39052 - AMB-NJ

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CN39052	\$8270_TCLR	Benzo(a)pyrene	NJ / Soil Remediation Standard / Non Res. Direct Conta	3400	270	2000	200	ug/Kg
CN39052	\$8270_TCLR	Benzo(a)pyrene	NJ / Soil Remediation Standard / Non Res. Ingestion-Der	3400	270	2300	2300	ug/Kg
CN39052	\$8270_TCLR	Dibenz(a,h)anthracene	NJ / Soil Remediation Standard / Res. Direct Contact	510	190	500	200	ug/Kg
CN39052	\$8270_TCLR	Benzo(a)pyrene	NJ / Soil Remediation Standard / Res. Direct Contact	3400	270	500	200	ug/Kg
CN39052	\$8270_TCLR	Benzo(a)pyrene	NJ / Soil Remediation Standard / Res. Ingestion-Dermal	3400	270	510	510	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance 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.

GCN 39052

N.J.A.C. 7:26D REMEDIATION STANDARDS
 APPENDIX 1 - REMEDIATION STANDARDS TABLES
 DATE LAST AMENDED: MAY 17, 2021

Compilation of Lower Residential Soil Remediation Standards Limits for:

Table 1 - Soil Remediation Standards for the Ingestion-Dermal Exposure Pathway - Residential

Table 3 - Soil Remediation Standards for the Inhalation Exposure Pathway - Residential

Values in mg/kg (All numeric values are rounded to two significant figures)

Contaminant	CAS No.	Residential Soil Remediation Standard Ingestion-Dermal	Residential Soil Remediation Standard Inhalation	Residential Soil Remediation Standard
1,1,1-Trichloroethane	71-55-6	160000	N/A	160000
1,1,2,2-Tetrachloroethane	79-34-5	3.5	N/A	3.5
1,1,2-Trichloroethane	79-00-5	12	N/A	12
1,1'-Biphenyl	92-52-4	87	N/A	87
1,1-Dichloroethane	75-34-3	120	N/A	120
1,1-Dichloroethene (1,1-Dichloroethylene)	75-35-4	11	52	11
1,2,4,5-Tetrachlorobenzene	95-94-3	23	N/A	23
1,2,4-Trichlorobenzene	120-82-1	780	94	94
1,2,4-Trimethylbenzene	95-63-6	780	N/A	780
1,2-Dibromo-3-chloropropane	96-12-8	0.87	0.026	0.026
1,2-Dibromoethane (Ethylene dibromide)	106-93-4	0.35	0.085	0.085
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	6700	N/A	6700
1,2-Dichloroethane	107-06-2	5.8	71	5.8
1,2-Dichloroethene (cis) (c-1,2-Dichloroethylene)	156-59-2	780	N/A	780
1,2-Dichloroethene (trans) (t-1,2-Dichloroethylene)	156-60-5	1300	N/A	1300
1,2-Dichloropropane	78-87-5	19	5.7	5.7
1,3-Dichlorobenzene (m-Dichlorobenzene)	541-73-1	6700	N/A	6700
1,3-Dichloropropene (total)	542-75-6	7	4.8	4.8
1,4-Dichlorobenzene (p-Dichlorobenzene)	106-46-7	780	N/A	780
1,4-Dioxane	123-91-1	7	45	7
2,2'-oxybis (1-chloropropane)	108-61-1	3100	N/A	3100
2,3,4,6-Tetrachlorophenol	58-90-2	1900	N/A	1900
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	0.000051	N/A	0.000051
2,4,5-Trichlorophenol	95-95-4	6300	N/A	6300
2,4,6-Trichlorophenol	95-95-4	49	N/A	49
2,4-Dichlorophenol	120-83-2	190	N/A	190
2,4-Dimethylphenol	105-67-9	1300	N/A	1300
2,4-Dinitrophenol	51-28-5	130	N/A	130
2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	25321-14-6	0.8	N/A	0.8
2-Butanone (Methyl ethyl ketone) (MEK)	78-93-3	47000	N/A	47000
2-Chloronaphthalene	91-58-7	4800	N/A	4800
2-Chlorophenol (o-Chlorophenol)	95-57-8	390	N/A	390
2-Hexanone	591-78-6	390	1000	390
2-Methylnaphthalene	91-57-6	240	N/A	240
2-Methylphenol (o-cresol)	95-48-7	320	N/A	320
3,3'-Dichlorobenzidine	91-94-1	1.2	N/A	1.2
4,4'-DDD (p,p'-TDE)	72-54-8	2.3	N/A	2.3
4,4'-DDE (p,p'-DDX)	74-55-9	2	N/A	2
4,4'-DDT	50-29-3	1.9	N/A	1.9
4-Chloroaniline	106-47-8	2.7	N/A	2.7
4-Methylphenol (p-cresol)	106-44-5	630	N/A	630
4-Nitroaniline	100-01-6	27	N/A	27
Acenaphthene	83-32-9	3600	N/A	3600
Acetone (2-Propanone)	67-64-1	70000	N/A	70000
Acetophenone	98-86-2	7800	N/A	7800
Aldrin	309-00-2	0.041	N/A	0.041
alpha-HCH (alpha-BHC)	319-84-6	0.086	N/A	0.086
Aluminum (total)	7429-90-5	78000	N/A	78000
Anthracene	120-12-7	18000	N/A	18000
Antimony (total)	7440-36-0	31	N/A	31
Arsenic (total)	7440-38-2	19	1100	19
Atrazine	1912-24-9	220	N/A	220
Barium (total)	7440-39-3	16000	870000	16000
Benzaldehyde	100-52-7	170	N/A	170
Benzene	71-43-2	3	2.2	2.2
Benzo(a)anthracene (1,2-Benzanthracene)	56-55-3	5.1	78000	5.1
Benzo(a)pyrene	50-32-8	0.51	3500	0.51

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Benzo(b)fluoranthene (3,4-Benzofluoranthene)	205-99-2	5.1	78000	5.1
Benzo(k)fluoranthene	207-08-9	51	780000	51
Beryllium	7440-41-7	160	2000	160
beta-HCH (beta-BHC)	319-85-7	0.3	N/A	0.3
Bis(2-chloroethoxy)methane	111-91-1	190	N/A	190
Bis(2-chloroethyl)ether	111-44-4	0.63	N/A	0.63
Bis(2-ethylhexyl)phthalate	117-81-7	39	N/A	39
Bromodichloromethane (Dichlorobromomethane)	75-27-4	11	N/A	11
Bromoform	75-25-2	88	N/A	88
Bromomethane (Methyl bromide)	74-83-9	110	18	18
Butylbenzyl phthalate	85-68-7	290	N/A	290
Cadmium	7440-43-9	71	2600	71
Caprolactam	105-60-2	32000	290	290
Carbon tetrachloride	56-23-5	7.6	1.4	1.4
Chlordane (alpha and gamma forms summed)	57-74-9	0.27	N/A	0.27
Chlorobenzene	108-90-7	510	N/A	510
Chloroform	67-66-3	780	590	590
Chloromethane (Methyl chloride)	74-87-3	N/A	270	270
Chrysene	218-01-9	510	N/A	510
Cobalt (total)	7440-48-4	23	520	23
Copper (total)	7440-50-8	3100	N/A	3100
Cyanide	151-50-8	47	N/A	47
Dibenz(a,h)anthracene	53-70-3	0.51	7800	0.51
Dibromochloromethane (Chlorodibromomethane)	124-48-1	8.3	N/A	8.3
Dichlorodifluoromethane (Freon 12)	75-71-8	16000	N/A	16000
Dieldrin	60-57-1	0.034	N/A	0.034
Diethylphthalate	84-66-2	51000	N/A	51000
Di-n-butyl phthalate	84-74-2	6300	N/A	6300
Di-n-octyl phthalate	117-84-0	630	N/A	630
Endosulfan I and Endosulfan II (alpha and beta) (summed)	115-29-7	470	N/A	470
Endrin	72-20-8	19	N/A	19
Ethylbenzene	100-41-4	7800	10	10
Fluoranthene	206-44-0	2400	N/A	2400
Fluorene	86-73-7	2400	N/A	2400
Heptachlor	76-44-8	0.15	N/A	0.15
Heptachlor epoxide	1024-57-3	0.076	N/A	0.076
Hexachloro-1,3-butadiene	87-68-3	8.9	N/A	8.9
Hexachlorobenzene	118-74-1	0.43	N/A	0.43
Hexachlorocyclopentadiene	77-47-4	470	2.7	2.7
Hexachloroethane	67-72-1	17	N/A	17
Indeno(1,2,3-cd)pyrene	193-39-5	5.1	78000	5.1
Isophorone	78-59-1	570	N/A	570
Isopropylbenzene	98-82-8	7800	N/A	7800
Lead (total)	7439-92-1	400	N/A	400
Lindane (gamma-HCH)(gamma-BHC)	58-89-9	0.57	N/A	0.57
Manganese (total)	7439-96-5	1900	87000	1900
Mercury (total)	7439-97-6	23	520000	23
Methoxychlor	72-43-5	320	N/A	320
Methyl acetate	79-20-9	78000	N/A	78000
Methyl tert-butyl ether (MTBE)	1634-04-4	780	140	140
Methylene chloride (Dichloromethane)	75-09-2	50	1400	50
Naphthalene	91-20-3	2500	5.7	5.7
Nickel (total)	7440-02-0	1600	20000	1600
Nitrobenzene	98-95-3	160	7.5	7.5
N-Nitrosodi-n-propylamine	621-64-7	0.17	N/A	0.17
N-Nitrosodiphenylamine	86-30-6	110	N/A	110
Pentachlorophenol	87-86-5	1	N/A	1
Phenol	108-95-2	19000	39000	19000
Polychlorinated biphenyls (PCBs)	1336-36-3	0.25	N/A	0.25
Pyrene	129-00-0	1800	N/A	1800
Selenium (total)	7782-49-2	390	N/A	390
Silver (total)	7440-22-4	390	N/A	390
Styrene	100-42-5	16000	N/A	16000
Tertiary butyl alcohol (TBA)	75-65-0	1400	N/A	1400
Tetrachloroethene (PCE) (Tetrachloroethylene)	127-18-4	330	47	47
Toluene	108-88-3	6300	N/A	6300
Toxaphene	8001-35-2	0.49	N/A	0.49
Trichloroethene (TCE) (Trichloroethylene)	79-01-6	15	3	3
Trichlorofluoromethane (Freon 11)	75-69-4	23000	N/A	23000
Vanadium (total)	7440-62-2	390	170000	390
Vinyl chloride	75-01-4	0.97	1.4	0.97
Xylenes (total)	1330-20-7	12000	N/A	12000
Zinc (total)	7440-66-6	23000	N/A	23000

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 APPENDIX I - REMEDIATION STANDARDS TABLES
 DATE LAST AMENDED: MAY 17, 2021

Compilation of Lower Non-Residential Soil Remediation Standards Limits for:

Table 2 - Soil Remediation Standards for the Ingestion-Dermal Exposure Pathway - Nonresidential

Table 4 - Soil Remediation Standards for the Inhalation Exposure Pathway - Nonresidential

Values in mg/kg (All numeric values are rounded to two significant figures)

Contaminant	CAS No.	Non-residential Soil Remediation Standard Ingestion-Dermal	Non-Residential Soil Remediation Standard Inhalation	Nonresidential Soil Remediation Standard
1,1,1-Trichloroethane	71-55-6	N/A	N/A	N/A
1,1,2,2-Tetrachloroethane	79-34-5	18	N/A	18
1,1,2-Trichloroethane	79-00-5	64	N/A	64
1,1'-Biphenyl	92-52-4	450	N/A	450
1,1-Dichloroethane	75-34-3	640	N/A	640
1,1-Dichloroethene (1,1-Dichloroethylene)	75-35-4	180	240	180
1,2,4,5-Tetrachlorobenzene	95-94-3	390	N/A	390
1,2,4-Trichlorobenzene	120-82-1	13000	N/A	13000
1,2,4-Trimethylbenzene	95-63-6	13000	N/A	13000
1,2-Dibromo-3-chloropropane	96-12-8	4.5	0.12	0.12
1,2-Dibromoethane (Ethylene dibromide)	106-93-4	1.8	0.41	0.41
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	110000	N/A	110000
1,2-Dichloroethane	107-06-2	30	320	30
1,2-Dichloroethene (cis) (c-1,2-Dichloroethylene)	156-59-2	13000	N/A	13000
1,2-Dichloroethene (trans) (t-1,2-Dichloroethylene)	156-60-5	22000	N/A	22000
1,2-Dichloropropane	78-87-5	98	27	27
1,3-Dichlorobenzene (m-Dichlorobenzene)	541-73-1	110000	N/A	110000
1,3-Dichloropropene (total)	542-75-6	36	23	23
1,4-Dichlorobenzene (p-Dichlorobenzene)	106-46-7	13000	N/A	13000
1,4-Dioxane	123-91-1	36	210	36
2,2'-oxybis (1-chloropropane)	108-61-1	52000	N/A	52000
2,3,4,6-Tetrachlorophenol	58-90-2	27000	N/A	27000
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	0.00081	N/A	0.00081
2,4,5-Trichlorophenol	95-95-4	91000	N/A	91000
2,4,6-Trichlorophenol	95-95-4	230	N/A	230
2,4-Dichlorophenol	120-83-2	2700	N/A	2700
2,4-Dimethylphenol	105-67-9	18000	N/A	18000
2,4-Dinitrophenol	51-28-5	1800	N/A	1800
2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	25321-14-6	3.8	N/A	3.8
2-Butanone (Methyl ethyl ketone) (MEK)	78-93-3	780000	N/A	780000
2-Chloronaphthalene	91-58-7	67000	N/A	67000
2-Chlorophenol (o-Chlorophenol)	95-57-8	6500	N/A	6500
2-Hexanone	591-78-6	6500	N/A	6500
2-Methylnaphthalene	91-57-6	3300	N/A	3300
2-Methylphenol (o-cresol)	95-48-7	4600	N/A	4600
3,3'-Dichlorobenzidine	91-94-1	5.7	N/A	5.7
4,4'-DDD (p,p'-TDE)	72-54-8	11	N/A	11
4,4'-DDE (p,p'-DDX)	74-55-9	11	N/A	11
4,4'-DDT	50-29-3	9.5	N/A	9.5
4-Chloroaniline	106-47-8	13	N/A	13
4-Methylphenol (p-cresol)	106-44-5	9100	N/A	9100
4-Nitroaniline	100-01-6	130	N/A	130
Acenaphthene	83-32-9	50000	N/A	50000
Acetone (2-Propanone)	67-64-1	N/A	N/A	NA
Acetophenone	98-86-2	130000	N/A	130000
Aldrin	309-00-2	0.21	N/A	0.21
alpha-HCH (alpha-BHC)	319-84-6	0.41	N/A	0.41
Aluminum (total)	7429-90-5	N/A	N/A	NA
Anthracene	120-12-7	250000	N/A	250000
Antimony (total)	7440-36-0	520	N/A	520
Arsenic (total)	7440-38-2	19	5200	19
Atrazine	1912-24-9	3200	N/A	3200
Barium (total)	7440-39-3	260000	N/A	260000
Benzaldehyde	100-52-7	910	N/A	910
Benzene	71-43-2	16	11	11
Benzo(a)anthracene (1,2-Benzanthracene)	56-55-3	23	370000	23
Benzo(a)pyrene	50-32-8	2.3	16000	2.3

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Benzo(b)fluoranthene (3,4-Benzofluoranthene)	205-99-2	23	370000	23
Benzo(k)fluoranthene	207-08-9	230	N/A	230
Beryllium	7440-41-7	2600	9300	2600
beta-HCH (beta-BHC)	319-85-7	1.4	N/A	1.4
Bis(2-chloroethoxy)methane	111-91-1	2700	N/A	2700
Bis(2-chloroethyl)ether	111-44-4	3.3	N/A	3.3
Bis(2-ethylhexyl)phthalate	117-81-7	180	N/A	180
Bromodichloromethane (Dichlorobromomethane)	75-27-4	59	N/A	59
Bromoform	75-25-2	460	N/A	460
Bromomethane (Methyl bromide)	74-83-9	1800	82	82
Butylbenzyl phthalate	85-68-7	1300	N/A	1300
Cadmium	7440-43-9	1100	12000	1100
Caprolactam	105-60-2	460000	1300	1300
Carbon tetrachloride	56-23-5	40	6.9	6.9
Chlordane (alpha and gamma forms summed)	57-74-9	1.4	N/A	1.4
Chlorobenzene	108-90-7	8400	N/A	8400
Chloroform	67-66-3	13000	N/A	13000
Chloromethane (Methyl chloride)	74-87-3	N/A	1200	1200
Chrysene	218-01-9	2300	N/A	2300
Cobalt (total)	7440-48-4	390	2500	390
Copper (total)	7440-50-8	52000	N/A	52000
Cyanide	151-50-8	780	N/A	780
Dibenz(a,h)anthracene	53-70-3	2.3	370000	2.3
Dibromochloromethane (Chlorodibromomethane)	124-48-1	43	N/A	43
Dichlorodifluoromethane (Freon 12)	75-71-8	260000	N/A	260000
Dieldrin	60-57-1	0.16	N/A	0.16
Diethylphthalate	84-66-2	730000	N/A	730000
Di-n-butyl phthalate	84-74-2	91000	N/A	91000
Di-n-octyl phthalate	117-84-0	9100	N/A	9100
Endosulfan I and Endosulfan II (alpha and beta) (summed)	115-29-7	7800	N/A	7800
Endrin	72-20-8	270	N/A	270
Ethylbenzene	100-41-4	130000	48	48
Fluoranthene	206-44-0	33000	N/A	33000
Fluorene	86-73-7	33000	N/A	33000
Heptachlor	76-44-8	0.81	N/A	0.81
Heptachlor epoxide	1024-57-3	0.4	N/A	0.4
Hexachloro-1,3-butadiene	87-68-3	47	N/A	47
Hexachlorobenzene	118-74-1	2.3	N/A	2.3
Hexachlorocyclopentadiene	77-47-4	7800	N/A	7800
Hexachloroethane	67-72-1	91	N/A	91
Indeno(1,2,3-cd)pyrene	193-39-5	23	370000	23
Isophorone	78-59-1	2700	N/A	2700
Isopropylbenzene	98-82-8	130000	N/A	130000
Lead (total)	7439-92-1	800	N/A	800
Lindane (gamma-HCH)(gamma-BHC)	58-89-9	2.8	N/A	2.8
Manganese (total)	7439-96-5	31000	400000	31000
Mercury (total)	7439-97-6	390	N/A	390
Methoxychlor	72-43-5	4600	N/A	4600
Methyl acetate	79-20-9	N/A	N/A	N/A
Methyl tert-butyl ether (MTBE)	1634-04-4	13000	650	650
Methylene chloride (Dichloromethane)	75-09-2	260	N/A	260
Naphthalene	91-20-3	34000	27	27
Nickel (total)	7440-02-0	26000	93000	26000
Nitrobenzene	98-95-3	2600	36	36
N-Nitrosodi-n-propylamine	621-64-7	0.36	N/A	0.36
N-Nitrosodiphenylamine	86-30-6	520	N/A	520
Pentachlorophenol	87-86-5	4.4	N/A	4.4
Phenol	108-95-2	270000	N/A	270000
Polychlorinated biphenyls (PCBs)	1336-36-3	1.1	N/A	1.1
Pyrene	129-00-0	25000	N/A	25000
Selenium (total)	7782-49-2	6500	N/A	6500
Silver (total)	7440-22-4	6500	N/A	6500
Styrene	100-42-5	260000	N/A	260000
Tertiary butyl alcohol (TBA)	75-65-0	23000	N/A	23000
Tetrachloroethene (PCE) (Tetrachloroethylene)	127-18-4	1700	N/A	1700
Toluene	108-88-3	100000	N/A	100000
Toxaphene	8001-35-2	2.3	N/A	2.3
Trichloroethene (TCE) (Trichloroethylene)	79-01-6	79	14	14
Trichlorofluoromethane (Freon 11)	75-69-4	390000	N/A	390000
Vanadium (total)	7440-62-2	6500	800000	6500
Vinyl chloride	75-01-4	5	6.4	5
Xylenes (total)	1330-20-7	190000	N/A	190000
Zinc (total)	7440-66-6	390000	N/A	390000