

AG CHOICE SOIL ANALYSIS 2024

Sample #: Field ID: Lab ID: Date Sampled: Depth(ft):	NJDEP SOIL REMEDIATION STANDARDS						TOPSOIL 2024			
	CAS	Ingestion-Dermal Residential (mg/Kg)	Inhalation Residential (mg/Kg)	Ingestion-Dermal Nonresidential (mg/Kg)	Inhalation Nonresidential (mg/Kg)	Migration to Ground Water (mg/Kg)	01406-002 04/19/2024			
							Conc	Q	RL	MDL
<b>Volatiles (mg/Kg)</b>										
Dichlorodifluoromethane	75-71-8	16000	NA1	260000	NA1	38	ND		0.00118	0.000612
Chloromethane	74-87-3	NA	270	NA	1200	NA6 (RL=1700)	ND		0.00118	0.000374
Vinyl chloride	75-01-4	0.97	1.4	5	6.4	0.0067	ND		0.00118	0.000382
Bromomethane	74-83-9	110	18	1800	82	0.043	ND		0.00236	0.00103
Chloroethane	75-00-3	NA	NA2,3	NA	NA2,3	NA6 (RL=1700)	ND		0.00236	0.00035
Trichlorofluoromethane	75-69-4	23000	NA1	390000	NA1	29	ND		0.00118	0.000479
Acrolein	107-02-8	NS	NS	NS	NS	NS	ND		0.024	0.00806
1,1-Dichloroethene	75-35-4	11	52	180	240	0.0069	ND		0.00118	0.000413
Acetone	67-64-1	70000	NA1	NA1	NA1	19	0.00792	J	0.012	0.0059
Carbon disulfide	75-15-0	NA	NA2,3	NA	NA2,3	3.7	ND		0.00236	0.000464
Methylene chloride	75-09-2	50	1400	260	NA2,3	0.013	0.00386	CJ	0.0059	0.00354
Acrylonitrile	107-13-1	NS	NS	NS	NS	NS	ND		0.024	0.0054
tert-Butyl alcohol (TBA)	75-65-0	1400	NA1	23000	NA1	0.32	ND		0.012	0.00148
trans-1,2-Dichloroethene	156-60-5	1300	NA1	22000	NA1	0.56	ND		0.00236	0.000418
Methyl tert-butyl ether (MTBE)	1634-04-4	780	140	13000	650	0.25	ND		0.00236	0.000257
1,1-Dichloroethane	75-34-3	120	NA1	640	NA1	0.24	ND		0.00236	0.000301
cis-1,2-Dichloroethene	156-59-2	780	NA1	13000	NA1	0.35	ND		0.00236	0.000253
2-Butanone (MEK)	78-93-3	47000	NA2,3	780000	NA2,3	0.98	ND		0.012	0.00236
Bromochloromethane	74-97-5	NS	NS	NS	NS	NS	ND		0.00118	0.0003
Chloroform	67-66-3	780	590	13000	NA2,3	0.33	ND		0.00118	0.00059
1,1,1-Trichloroethane	71-55-6	160000	NA2,3	NA1	NA2,3	0.2	ND		0.00118	0.000362
Carbon tetrachloride	56-23-5	7.6	1.4	40	6.9	0.0075	ND		0.00118	0.000236
1,2-Dichloroethane (EDC)	107-06-2	5.8	71	30	320	0.0095	ND		0.00118	0.000273
Benzene	71-43-2	3	2.2	16	11	0.0094	ND		0.00118	0.00029
Trichloroethene	79-01-6	15	3	79	14	0.0065	ND		0.00118	0.000176
1,2-Dichloropropane	78-87-5	19	5.7	98	27	0.0058	ND		0.00118	0.00028
Bromodichloromethane	75-27-4	11	NA1	59	NA1	0.005	ND		0.00118	0.00014
cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	NS	ND		0.00118	0.000181
4-Methyl-2-pentanone (MIBK)	108-10-1	NA	NA2,3	NA	NA2,3	NA6 (RL=3400)	ND		0.00236	0.000617
Toluene	108-88-3	6300	NA2,3	100000	NA2,3	7.8	ND		0.00118	0.00059
trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	NS	ND		0.00118	0.000375
1,1,2-Trichloroethane	79-00-5	12	NA1	64	NA1	0.017	ND		0.00118	0.000253
Tetrachloroethene	127-18-4	330	47	1700	NA2,3	0.0086	ND		0.00118	0.000373
2-Hexanone	591-78-6	390	1000	6500	NA2,3	0.15	ND		0.00236	0.00181
Dibromochloromethane	124-48-1	8.3	NA1	43	NA1	0.005	ND		0.00118	0.000196
1,2-Dibromoethane (EDB)	106-93-4	0.35	0.085	1.8	0.41	0.005	ND		0.00118	0.000218
Chlorobenzene	108-90-7	510	NA2,3	8400	NA2,3	0.64	ND		0.00118	0.000204
Ethylbenzene	100-41-4	7800	10	130000	48	15	ND		0.00118	0.000299
Total Xylenes	1330-20-7	12000	NA2,3	190000	NA2,3	19	ND		0.00236	0.000165
Styrene	100-42-5	16000	NA2,3	260000	NA2,3	2.1	ND		0.00118	0.000254
Bromoform	75-25-2	88	NA1	460	NA1	0.018	ND		0.00118	0.000367
Isopropylbenzene	98-82-8	7800	NA2,3	130000	NA2,3	22	ND		0.00118	0.000251
1,1,2,2-Tetrachloroethane	79-34-5	3.5	NA1	18	NA1	0.0069	ND		0.00118	0.00028
1,3-Dichlorobenzene	541-73-1	6700	NA1	110000	NA1	11	ND		0.00118	0.000313
1,4-Dichlorobenzene	106-46-7	780	NA2,3	13000	NA2,3	1.4	ND		0.00118	0.000366
1,2-Dichlorobenzene	95-50-1	6700	NA2,3	110000	NA2,3	11	ND		0.00118	0.000296



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	CAS	Ingestion-Dermal	Inhalation	Ingestion-Dermal	Inhalation	Migration to Ground	01406-002 04/19/2024			
		Residential (mg/Kg)	Residential (mg/Kg)	Nonresidential (mg/Kg)	Nonresidential (mg/Kg)	Water (mg/Kg)				
1,2-Dibromo-3-chloropropane	96-12-8	0.87	0.026	4.5	0.12	0.005	ND	0.00118	0.000972	
1,2,4-Trichlorobenzene	120-82-1	780	94	13000	NA2,3	0.52	ND	0.00118	0.000496	
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	NS	ND	0.00118	0.000375	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NA	NA2,3	NA	NA2,3	NA1	ND	0.0059	0.000704	
Methyl acetate	79-20-9	78000	NA1	NA1	NA1	22	ND	0.00118	0.000953	
Cyclohexane	110-82-7	NA	NA2,3	NA	NA2,3	NA6 (RL=65)	ND	0.0059	0.000654	
Methylcyclohexane	108-87-2	NS	NS	NS	NS	NS	ND	0.00118	0.000434	
1,3-Dichloropropene (cis- and trans-)	542-75-6	7	4.8	36	23	0.0063	ND	0.00118	0.000181	
TOTAL VO's:		NS	NS	NS	NS	NS	0.012	JC	NA	
TOTAL TIC's:		NS	NS	NS	NS	NS	ND		NA	
TOTAL VO's & TIC's:		NS	NS	NS	NS	NS	0.012	JC	NA	
<b>Semivolatiles - BNA (mg/Kg)</b>							<b>Conc</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
N-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	NS	ND		0.083	0.012
Benzaldehyde	100-52-7	170	NA1	910	NA1	NA6 (RL=0.33)	ND		0.042	0.031
Phenol	108-95-2	19000	39000	270000	NA2,3	21	ND		0.042	0.00941
Bis(2-chloroethyl) ether	111-44-4	0.63	NA1	3.3	NA1	0.33	ND		0.042	0.015
2-Chlorophenol	95-57-8	390	NA1	6500	NA1	0.76	ND		0.042	0.014
2-Methylphenol	95-48-7	320	NA1	4600	NA1	0.77	ND		0.042	0.019
2,2'-Oxybis(1-Chloropropane)	108-60-1	3100	NA1	52000	NA1	1.9	ND		0.042	0.010
4-Methylphenol **	106-44-5	630	NA1	9100	NA1	0.75	ND		0.083	0.019
N-Nitrosodi-n-propylamine	621-64-7	0.17	NA1	0.36	NA1	0.17	ND		0.042	0.026
Acetophenone	98-86-2	7800	NA1	130000	NA1	3.6	ND		0.042	0.025
1,4-Dioxane	123-91-1	7	45	36	210	0.067	ND		0.042	0.027
Hexachloroethane	67-72-1	17	NA2,3	91	NA2,3	0.17	ND		0.042	0.017
Nitrobenzene	98-95-3	160	7.5	2600	36	0.17	ND		0.042	0.010
Isophorone	78-59-1	570	NA2,3	2700	NA2,3	0.23	ND		0.042	0.018
2-Nitrophenol	88-75-5	NS	NS	NS	NS	NS	ND		0.042	0.025
2,4-Dimethylphenol	105-67-9	1300	NA1	18000	NA1	2.3	ND		0.042	0.012
Bis(2-chloroethoxy) methane	111-91-1	190	NA1	2700	NA1	NA6 (RL=0.17)	ND		0.042	0.00927
2,4-Dichlorophenol	120-83-2	190	NA1	2700	NA1	0.19	ND		0.042	0.011
Naphthalene	91-20-3	2500	5.7	34000	27	19	ND		0.042	0.00607
4-Chloroaniline	106-47-8	2.7	NA1	13	NA1	0.23	ND		0.042	0.016
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	NS	ND		0.042	0.012
Caprolactam	105-60-2	32000	290	460000	1300	16	ND		0.083	0.031
4-Chloro-3-methylphenol	59-50-7	NS	NS	NS	NS	NS	ND		0.042	0.016
2-Methylnaphthalene	91-57-6	240	NA1	3300	NA1	3.1	ND		0.042	0.015
Hexachlorocyclopentadiene	77-47-4	470	2.7	7800	NA2,3	2.5	ND		0.083	0.072
2,4,6-Trichlorophenol	88-06-2	49	NA1	230	NA1	0.86	ND		0.042	0.011
2,4,5-Trichlorophenol	95-95-4	6300	NA1	91000	NA1	68	ND		0.042	0.032
1,1'-Biphenyl	92-52-4	87	NA1	450	NA1	NA1	ND		0.042	0.00619
2-Chloronaphthalene	91-58-7	4800	NA1	67000	NA1	NA1	ND		0.042	0.00961
2-Nitroaniline	88-74-4	NS	NS	NS	NS	NS	ND		0.042	0.022
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	NS	ND		0.042	0.00955
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	NS	ND		0.042	0.048
Acenaphthylene	208-96-8	NS	NS	NS	NS	NS	ND		0.042	0.00911
3-Nitroaniline	99-09-2	NS	NS	NS	NS	NS	ND		0.042	0.026
Acenaphthene	83-32-9	3600	NA1	50000	NA1	NA1	ND		0.042	0.00822



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		Residential (mg/Kg)	Residential (mg/Kg)	Nonresidential (mg/Kg)	Nonresidential (mg/Kg)	Water (mg/Kg)	Conc	Q	RL	MDL
2,4-Dinitrophenol	51-28-5	130	NA1	1800	NA1	0.33	ND	0.083	0.017	
4-Nitrophenol	100-02-7	NS	NS	NS	NS	NS	ND	0.042	0.042	
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	NS	ND	0.042	0.047	
Dibenzofuran	132-64-9	NS	NS	NS	NS	NS	ND	0.042	0.00544	
Diethyl phthalate	84-66-2	51000	NA1	730000	NA1	44	ND	0.042	0.013	
Fluorene	86-73-7	2400	NA	33000	NA1	NA1	ND	0.042	0.011	
4-Chlorophenyl phenyl ether	7005-72-3	NS	NS	NS	NS	NS	ND	0.042	0.00915	
4-Nitroaniline	100-01-6	27	NA2,3	130	NA2,3	NA6 (RL=0.33)	ND	0.042	0.025	
1,2,4,5-Tetrachlorobenzene	95-94-3	23	NA1	390	NA1	NA6 (RL=0.17)	ND	0.042	0.014	
2,3,4,6-Tetrachlorophenol	58-90-2	1900	NA1	27000	NA1	26	ND	0.042	0.014	
4,6-Dinitro-2-methylphenol	534-52-1	NS	NS	NS	NS	NS	ND	0.042	0.018	
N-Nitrosodiphenylamine	86-30-6	110	NA1	520	NA1	1.1	ND	0.042	0.00854	
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	NS	ND	0.042	0.00924	
4-Bromophenyl phenyl ether	101-55-3	NS	NS	NS	NS	NS	ND	0.042	0.012	
Hexachlorobenzene	118-74-1	0.43	NA1	2.3	NA1	0.17	ND	0.042	0.013	
Atrazine	1912-24-9	220	NA1	3200	NA1	0.33	ND	0.042	0.025	
Pentachlorophenol	87-86-5	1	NA1	4.4	NA1	0.33	ND	0.042	0.018	
Phenanthrene	85-01-8	NS	NS	NS	NS	NS	ND	0.042	0.00681	
Anthracene	120-12-7	18000	NA1	250000	NA1	NA1	ND	0.042	0.00424	
Carbazole	86-74-8	NS	NS	NS	NS	NS	ND	0.042	0.0097	
Di-n-butyl phthalate	84-74-2	6300	NA1	91000	NA1	NA1	ND	0.042	0.017	
Fluoranthene	206-44-0	2400	NA1	33000	NA1	NA1	ND	0.042	0.013	
Benzidine	92-87-5	NS	NS	NS	NS	NS	ND	0.042	0.109	
Pyrene	129-00-0	1800	NA1	25000	NA1	NA1	ND	0.042	0.00968	
Butyl benzyl phthalate	85-68-7	290	NA1	1300	NA1	29	ND	0.042	0.019	
3,3'-Dichlorobenzidine	91-94-1	1.2	NA1	5.7	NA1	3.9	ND	0.042	0.029	
Benzo[a]anthracene	56-55-3	5.1	78000	23	370000	0.71	ND	0.042	0.015	
Chrysene	218-01-9	510	NA2,3	2300	NA2,3	NA1	ND	0.042	0.012	
Bis(2-ethylhexyl) phthalate	117-81-7	39	NA1	180	NA1	14	ND	0.042	0.027	
Di-n-octyl phthalate	117-84-0	630	NA1	9100	NA1	NA1	ND	0.042	0.031	
Benzo[b]fluoranthene	205-99-2	5.1	78000	23	370000	NA1	ND	0.042	0.021	
Benzo[k]fluoranthene	207-08-9	51	780000	230	NA2,3	NA1	ND	0.042	0.029	
Benzo[a]pyrene	50-32-8	0.51	3500	2.3	16000	NA1	ND	0.042	0.020	
Indeno[1,2,3-cd]pyrene	193-39-5	5.1	78000	23	370000	NA1	ND	0.042	0.027	
Dibenz[a,h]anthracene	53-70-3	0.51	7800	2.3	37000	NA1	ND	0.042	0.017	
Benzo[g,h,i]perylene	191-24-2	NS	NS	NS	NS	NS	ND	0.042	0.031	
Dinitrotoluene (2,4- and 2,6-)	25321-14-6	0.8	NA1	3.8	NA1	0.27	ND	0.042	0.047	
TOTAL BNA'S:		NS	NS	NS	NS	NS	ND		NA	
TOTAL TIC's:		NS	NS	NS	NS	NS	15.3	JN	NA	
TOTAL BNA'S & TIC's:		NS	NS	NS	NS	NS	15.3	JN	NA	
PCB's (mg/Kg)							Conc	Q	RL	MDL
Aroclor-1016	12674-11-2	NS	NS	NS	NS	NS	ND		0.00415	0.0012
Aroclor-1221	11104-28-2	NS	NS	NS	NS	NS	ND		0.00415	0.0012
Aroclor-1232	11141-16-5	NS	NS	NS	NS	NS	ND		0.00415	0.0012
Aroclor-1242	53469-21-9	NS	NS	NS	NS	NS	ND		0.00415	0.0012
Aroclor-1248	12672-29-6	NS	NS	NS	NS	NS	ND		0.00415	0.0012
Aroclor-1254	11097-69-1	NS	NS	NS	NS	NS	ND		0.00415	0.0012



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Aroclor-1260	11096-82-5	NS	NS	NS	NS	NS	ND	0.00415	0.0012	
Aroclor-1262	37324-23-5	NS	NS	NS	NS	NS	ND	0.00415	0.0012	
Aroclor-1268	11100-14-4	NS	NS	NS	NS	NS	ND	0.00415	0.0012	
PCBs	1336-36-3	0.25	NA1	1.1	NA1	1.6	ND	0.00415	0.00125	
<b>Pesticides (mg/Kg)</b>							<b>Conc</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
alpha-BHC	319-84-6	0.086	NA1	0.41	NA1	0.0023	ND		0.00083	0.000148
beta-BHC	319-85-7	0.3	NA1	1.4	NA1	0.0046	ND		0.00083	0.000194
gamma-BHC (Lindane)	58-89-9	0.57	NA1	2.8	NA1	0.0035	ND		0.00083	0.000185
delta-BHC	319-86-8	NS	NS	NS	NS	NS	ND		0.00083	0.000161
Heptachlor	76-44-8	0.15	NA1	0.81	NA1	0.083	ND		0.00083	0.000197
Aldrin	309-00-2	0.041	NA1	0.21	NA1	0.13	ND		0.00083	0.000174
Heptachlor epoxide	1024-57-3	0.076	NA1	0.4	NA1	0.081	ND		0.00083	0.00018
Endosulfan I	959-98-8	NS	NS	NS	NS	NS	ND		0.00083	0.000186
4,4'-DDE	72-55-9	2	NA1	11	NA1	0.47	ND		0.00083	0.000169
Dieldrin	60-57-1	0.034	NA1	0.16	NA1	0.024	ND		0.00083	0.000169
Endrin	72-20-8	19	NA1	270	NA1	1.6	ND		0.00083	0.00021
Endosulfan II	33213-65-9	NS	NS	NS	NS	NS	ND		0.00083	0.00019
4,4'-DDD	72-54-8	2.3	NA1	11	NA1	0.47	ND		0.00083	0.000221
Endrin aldehyde	7421-93-4	NS	NS	NS	NS	NS	ND		0.00083	0.000174
Endosulfan sulfate	1031-07-8	NS	NS	NS	NS	NS	ND		0.00083	0.000206
4,4'-DDT	50-29-3	1.9	NA1	9.5	NA1	0.67	ND		0.00083	0.000155
Endrin ketone	53494-70-5	NS	NS	NS	NS	NS	ND		0.00083	0.000162
Methoxychlor	72-43-5	320	NA1	4600	NA1	NA1	ND		0.00083	0.000222
alpha-Chlordane	5103-71-9	NS	NS	NS	NS	NS	ND		0.00083	0.000183
gamma-Chlordane	5103-74-2	NS	NS	NS	NS	NS	ND		0.00083	0.000163
Toxaphene	8001-35-2	0.49	NA1	2.3	NA1	6.2	ND		0.010	0.00415
Endosulfan (I and II)	115-29-7	470	NA1	7800	NA1	NA1	ND		0.00083	0.000186
Chlordane (alpha and gamma)	57-74-9	0.27	NA2,3	1.4	NA2,3	1.4	ND		0.00083	0.000163
<b>General Analytical</b>							<b>Conc</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Hexavalent Chromium-mg/Kg	18540-29-9	NS	NS	NS	NS	NS	ND		1.25	0.472
Cyanide, Total-mg/Kg	57-12-5	47	NA2	780	NA2	20	ND		1.25	0.499
Trivalent (III) Chromium-mg/Kg	16065-83-1	NS	NS	NS	NS	NS	8.7		2.4	1.1

NJDEP Soil Remediation Standards: Remediation Standards N.J.A.C. 7:26D, May 2012, Amended May 17, 2021

**BOLD Conc** Indicates a concentration that exceeds applicable criteria.  
**BOLD RL** Indicates RL that exceeds applicable criteria.  
**BOLD MDL** Indicates MDL that exceeds applicable criteria.

NS = No Standard Available  
 NA = Not Applicable  
 ND = Analyzed for but Not Detected at the MDL  
 C = Common Laboratory and/or Bottle Contaminant.  
 N = Presumptive evidence of a compound from the use of GC/MS library search.  
 + Subcontracted data for TAL Metals (6020B/7471B) by Eurofins TestAmerica, Edison  
 All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.  
 J = Indicates an estimated value either when the concentration in the sample is greater than MDL and less than RL, or for qualification of TICs