

Table 1a. Stockpile Soil Analytical Results (Final)
5601 Manor Woods Road
Frederick, Maryland 21703

Sample ID	TP-1A	TP-1B	TP-1C	TP-1D	TP-2A	TP-2B	TP-2C	TP-2D	TP-3A	TP-3B	TP-3C	TP-3D	TP-4A	TP-4B	TP-4C	TP-4D	MDE Non-Residential Soil
Date Collected	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	Cleanup Standard
Approximate Depth (Feet)	2	5	10	20	2	5	10	20	2	5	10	20	2	5	10	20	(mg/kg)
Semivolatile Organics by EPA 8270D (mg/kg)																	
Benzo[a]Anthracene	0.1	ND (0.095)	ND (0.099)	ND (0.1)	ND (0.09)	ND (0.097)	ND (0.096)	ND (0.098)	ND (0.095)	ND (0.098)	ND (0.1)	ND (0.099)	ND (0.097)	ND (0.096)	ND (0.1)	ND (0.099)	21
Benzo[b]Fluoranthene	0.2	ND (0.095)	ND (0.099)	0.12	0.13	ND (0.097)	ND (0.096)	ND (0.098)	ND (0.095)	ND (0.098)	ND (0.1)	ND (0.099)	ND (0.097)	ND (0.096)	ND (0.1)	ND (0.099)	21
Benzo[e,h,i]Perylene	0.1	ND (0.095)	ND (0.099)	ND (0.1)	ND (0.09)	ND (0.097)	ND (0.096)	ND (0.098)	ND (0.095)	ND (0.098)	ND (0.1)	ND (0.099)	ND (0.097)	ND (0.096)	ND (0.1)	ND (0.099)	NP
Benzo[a]Pyrene	0.14	ND (0.095)	ND (0.099)	ND (0.1)	0.1	ND (0.097)	ND (0.096)	ND (0.098)	ND (0.095)	ND (0.098)	ND (0.1)	ND (0.099)	ND (0.097)	ND (0.096)	ND (0.1)	ND (0.099)	2.1
Chrysene	0.12	ND (0.095)	ND (0.099)	ND (0.1)	ND (0.09)	ND (0.097)	ND (0.096)	ND (0.098)	ND (0.095)	ND (0.098)	ND (0.1)	ND (0.099)	ND (0.097)	ND (0.096)	ND (0.1)	ND (0.099)	2100
Fluoranthene	0.14	ND (0.095)	ND (0.099)	0.1	0.11	ND (0.097)	ND (0.096)	ND (0.098)	ND (0.095)	ND (0.098)	ND (0.1)	ND (0.099)	ND (0.097)	ND (0.096)	ND (0.1)	ND (0.099)	3000
Indeno[1,2,3-cd]Pyrene	0.1	ND (0.095)	ND (0.099)	ND (0.1)	ND (0.09)	ND (0.097)	ND (0.096)	ND (0.098)	ND (0.095)	ND (0.098)	ND (0.1)	ND (0.099)	ND (0.097)	ND (0.096)	ND (0.1)	ND (0.099)	21
Pyrene	0.14	ND (0.095)	ND (0.099)	ND (0.1)	0.11	ND (0.097)	ND (0.096)	ND (0.098)	ND (0.095)	ND (0.098)	ND (0.1)	ND (0.099)	ND (0.097)	ND (0.096)	ND (0.1)	ND (0.099)	2300
Chlorinated Pesticides by EPA 8081B (mg/kg)																	
Total Chlorinated Pesticides	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	Varies
Polychlorinated Biphenyls by EPA 8082A (mg/kg)																	
Total Polychlorinated Biphenyls	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	Varies
Chlorinated Herbicides by EPA 8151A (mg/kg)																	
Total Chlorinated Herbicides	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	Varies
Total Metals Analysis by EPA 6020B (mg/kg)																	
Arsenic	6.62	6.33	6.13	6.27	4.89	5.73	6.35	6.12	5.84	5.96	4.72	5.51	6.04	6.62	4.88	5.69	28 ⁽¹⁾
Beryllium	1.17	0.917	1.06	1.15	0.842	0.974	1.16	1.37	0.929	1.01	1.42	0.95	1.11	1.05	0.998	0.906	22000
Chromium	25.7	35.2	22.8	25.5	25.1	25	28	24.9	23.1	22.5	21.5	22.6	25.5	41.2	21.8	24.2	180000 ⁽²⁾
Copper	18.1	11.8	12.9	13.7	11.5	13.1	14.5	11.3	10.8	12.2	22	14.1	12.5	13.8	18.5	12.3	4700
Lead	22.3	18.3	19.8	19.7	15.6	17.9	21.9	18.8	19.1	20.3	42.1	15.3	19.8	20.7	13.5	16.2	550
Mercury	0.0499	0.0333	0.0307	0.0344	0.0229	0.0382	0.0337	0.0397	0.0289	0.0357	0.0928	0.0537	0.0441	0.0422	0.0529	0.0356	4.6
Nickel	21	16.3	15.8	17.8	16.6	17.3	17.1	16.7	14.7	16	28	17	17.4	20.9	15.3	2200	2200
Selenium	3	2.6	3.81	2.89	2.04	3.11	2.97	4.33	2.8	2.79	2.98	2.91	2.89	2.91	2.98	2.37	580
Zinc	48.3	34.6	43.5	43.3	40.4	41.2	41.2	43	39	39.7	47.6	42.7	41.7	40.3	47.1	38	35000
Sample ID	TP-5A	TP-5B	TP-5C	TP-5D	TP-6A	TP-6B	TP-6C	TP-6D	TP-7A	TP-7B	TP-7C	TP-7D	TP-8A	TP-8B	TP-8C	TP-8D	MDE Non-Residential Soil
Date Collected	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	28-Apr-25	Cleanup Standard
Approximate Depth (Feet)	2	5	10	20	2	5	10	20	2	5	10	20	2	5	10	20	(mg/kg)
Semivolatile Organics by EPA 8270D (mg/kg)																	
Benzo[a]Anthracene	ND (0.096)	ND (0.1)	ND (0.1)	ND (0.098)	ND (0.098)	ND (0.099)	ND (0.1)	ND (0.1)	ND (0.096)	ND (0.098)	ND (0.1)	ND (0.1)	ND (0.098)	ND (0.096)	ND (0.099)	ND (0.1)	21
Benzo[b]Fluoranthene	ND (0.096)	ND (0.1)	0.13	ND (0.097)	ND (0.098)	ND (0.099)	0.1	ND (0.1)	ND (0.096)	ND (0.098)	0.13	0.1	ND (0.098)	ND (0.096)	ND (0.099)	0.12	21
Benzo[e,h,i]Perylene	ND (0.096)	ND (0.1)	ND (0.1)	ND (0.098)	ND (0.098)	ND (0.099)	ND (0.1)	ND (0.1)	ND (0.096)	ND (0.098)	ND (0.1)	ND (0.1)	ND (0.098)	ND (0.096)	ND (0.099)	ND (0.1)	NP
Benzo[a]Pyrene	ND (0.096)	ND (0.1)	0.1	0.12	ND (0.098)	ND (0.099)	ND (0.1)	ND (0.1)	ND (0.096)	ND (0.098)	ND (0.1)	ND (0.1)	ND (0.098)	ND (0.096)	ND (0.099)	ND (0.1)	2.1
Chrysene	ND (0.096)	ND (0.1)	ND (0.1)	0.099	ND (0.098)	ND (0.099)	ND (0.1)	ND (0.1)	ND (0.096)	ND (0.098)	ND (0.1)	ND (0.1)	ND (0.098)	ND (0.096)	ND (0.099)	ND (0.1)	2100
Fluoranthene	ND (0.096)	ND (0.1)	0.12	0.14	ND (0.098)	ND (0.099)	ND (0.1)	ND (0.1)	ND (0.096)	ND (0.098)	0.1	ND (0.1)	ND (0.098)	ND (0.096)	ND (0.099)	ND (0.1)	3000
Indeno[1,2,3-cd]Pyrene	ND (0.096)	ND (0.1)	ND (0.1)	ND (0.098)	ND (0.098)	ND (0.099)	ND (0.1)	ND (0.1)	ND (0.096)	ND (0.098)	ND (0.1)	ND (0.1)	ND (0.098)	ND (0.096)	ND (0.099)	ND (0.1)	21
Pyrene	ND (0.096)	ND (0.1)	0.12	0.14	ND (0.098)	ND (0.099)	ND (0.1)	ND (0.1)	ND (0.096)	ND (0.098)	0.1	ND (0.1)	ND (0.098)	ND (0.096)	ND (0.099)	ND (0.1)	2300
Chlorinated Pesticides by EPA 8081B (mg/kg)																	
Total Chlorinated Pesticides	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	Varies
Polychlorinated Biphenyls by EPA 8082A (mg/kg)																	
Total Polychlorinated Biphenyls	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	Varies
Chlorinated Herbicides by EPA 8151A (mg/kg)																	
Total Chlorinated Herbicides	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	ND (Varies)	Varies
Total Metals Analysis by EPA 6020B (mg/kg)																	
Arsenic	5.8	5.54	5.68	5.55	5.22	7.96	5.39	5.87	6.13	7.7	5.19	4.87	5.62	7.16	6.92	5.76	28 ⁽¹⁾
Beryllium	0.826	1.18	1.21	1.3	1.09	0.649	1.46	1.25	1.27	1.46	1.27	1.08	1.08	1.11	1.05	0.931	22000
Chromium	24.2	21.4	23.8	24.6	23.1	55.1	19.3	26.7	25.1	40.5	22.4	18.9	20.6	34.1	44.7	28.2	180000 ⁽²⁾
Copper	13	13.3	14.5	12	16.6	14.3	22.3	15.3	15.7	18.5	12	13	21.4	15.8	14.2	19	4700
Lead	18	19.2	18.5	18.9	16.3	20.5	17.5	18.2	18.7	23.7	59.4	16.7	18.3	21.3	20.6	14.7	550
Mercury	0.0326	0.041	0.0508	0.0372	0.035	0.0462	0.0617	0.048	0.0274	0.0517	0.0266	0.0398	0.0556	0.0505	0.0504	0.0539	4.6
Nickel	15.6	18.5	20.4	17.7	22.1	17.9	27.5	20.9	19.5	26.1	16.8	16.3	26.3	19.1	18.7	21.1	2200
Selenium	2.25	4.76	3.74	3.8	1.74	0.958	2.61	2.84	1.6	2.45	2.71	2.24	1.25	2.01	2.01	1.65	580
Zinc	36.3	48.9	47	47.4	41.8	44.2	52.8	48.2	43.5	51.5	48.8	39.3	43.1	42.5	42.2	40.3	35000
Maryland Department of the Environment Cleanup Standards for Soil and Groundwater. Published October 2018.																	
(1) The MDE has adopted a standard which incorporates the bioavailability. The above standard is the typical bioavailability standard enforced by the MDE.																	
(2) Trivalent chromium standard																	
NA = Not analyzed																	
NP = The MDE/EPA has no published standard																	
mg/kg = Parts per million (milligrams per kilogram)																	
ND (#) = Not Detected (Laboratory Detection Limit)																	