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

	Sample D. T. D. D. T. D. C. T. D. D. T. D.														
Sample ID	TP-9A	TP-9B	TP-9C	TP-9D	TP-10A	TP-10B	TP-10C	TP-10D	TP-11A	TP-11B	TP-11C	TP-11D	TP-12A	TP-12B	MDE Non-Residential Soil
Date Collected	29-Apr-25	29-Apr-25	29-Apr-25	29-Apr-25	29-Apr-25	29-Apr-25	29-Apr-25	29-Apr-25	29-Apr-25	29-Apr-25	29-Apr-25	29-Apr-25	29-Apr-25	29-Apr-25	Cleanup Standard (mg/kg)
Approximate Depth (Feet)	2	5	10	20	2	5	10	20	2	5	10	20	2	5	Cleanup Stanuaru (mg/kg)
Semivolatile Organics by EPA 8270D (mg/kg	Semivolatile Organics by EPA 8270D (mg/kg)														
Benzo[b]Fluoranthene	ND (0.099)	ND (0.097)	0.13	0.12	ND (0.098)	ND (0.099)	ND (0.1)	ND (0.1)	ND (0.099)	ND (0.096)	ND (0.097)	ND (0.098)	ND (0.095)	ND (0.096)	21
Benzo[a]Pyrene	ND (0.099)	ND (0.097)	0.1	ND (0.1)	ND (0.098)	ND (0.099)	ND (0.1)	ND (0.1)	ND (0.099)	ND (0.096)	ND (0.097)	ND (0.098)	ND (0.095)	ND (0.096)	2.1
Fluoranthene	ND (0.099)	0.14	0.12	0.11	ND (0.098)	ND (0.099)	ND (0.1)	ND (0.1)	ND (0.099)	ND (0.096)	ND (0.097)	ND (0.098)	ND (0.095)	ND (0.096)	3000
Pyrene	ND (0.099)	0.11	0.11	0.1	ND (0.098)	ND (0.099)	ND (0.1)	ND (0.1)	ND (0.099)	ND (0.096)	ND (0.097)	ND (0.098)	ND (0.095)	ND (0.096)	2300
Chlorinated Pesticides by EPA 8081B (mg/k	g)														
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)	Varies
Polychlorinated Biphenyls by EPA 8082A (m	ıg/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)	Varies
Chlorinated Herbicides by EPA 8151A (mg/k	(g)														
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)	Varies
Total Metals Analysis by EPA 6020B (mg/kg	1)														
Arsenic	6.39	5.36	5.03	4.76	6.95	6.52	7.29	5.75	5.32	4.1	6.94	4.83	7.18	6.76	28 ⁽¹⁾
Beryllium	1.45	1.2	1.45	1.01	1.07	1.55	1.41	0.92	1.21	0.78	1.63	0.893	3.39	1.23	22000
Chromium	28.8	28.6	20.2	19.1	21.3	29.4	38	26.7	22	15.8	38.4	18.5	12.7	38.3	180000 ⁽²⁾
Copper	17.4	12.9	21.2	11.5	25.7	19.7	14.6	14.3	13.3	14.7	22.5	14	25.3	15.1	4700
Lead	21.2	19.7	18	19.2	16.9	22	21.6	18.1	19.4	13.3	18.9	18.3	18.8	23.3	
Mercury	0.051	0.0357	0.0861	0.0302	0.0769	0.041	0.0479	0.0395	0.0406	0.0587	0.0502	0.0431	0.0556	0.048	550 4.6
Nickel	23.8	21.4	24.3	15.7	30.1	21.1	19.2	17.2	17.8	17.4	28.1	17.2	39.5	20	2200
Selenium	2.53	2.17	2.41	2.72	1.69	4.18	2.74	2.12	2.88	1.58	1.94	2.31	2.87	2.52	580
Zinc	47.9	52.6	43.4	42.5	51.5	47	46.4	42.9	43.5	35.6	54.4	40.5	140	43.8	35000
Sample ID	TP-12C	TP-12D	TP-13A	TP-13B	TP-13C	TP-13D	TP-14A	TP-14B	TP-14C	TP-14D	TP-15A	TP-15B	TP-15C	TP-15D	
Date Collected	29-Apr-25	29-Apr-25	29-Apr-25	29-Apr-25	29-Apr-25	29-Apr-25	29-Apr-25	29-Apr-25	29-Apr-25	29-Apr-25	29-Apr-25	29-Apr-25	29-Apr-25	29-Apr-25	MDE Non-Residential Soil
Approximate Depth (Feet)	10	20	2	5	10	20	2	5	10	20	2	5	10	20	Cleanup Standard (mg/kg)
Semivolatile Organics by EPA 8270D (mg/kg			_	-			_	-							
Benzo[b]Fluoranthene	ND (0.097)	ND (0.097)	ND (0.098)	ND (0.096)	ND (0.1)	0.11	ND (0.1)	ND (0.099)	ND (0.098)	0.12	ND (0.095)	ND (0.098)	ND (0.097)	ND (0.1)	21
Benzo[a]Pyrene	ND (0.097)	ND (0.097)	ND (0.098)	ND (0.096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.099)	ND (0.098)	ND (0.1)	ND (0.095)	ND (0.098)	ND (0.097)	ND (0.1)	
Fluoranthene		ND (0.097)	ND (0.098)	ND (0.096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.099)	ND (0.098)	0.11	ND (0.095)	ND (0.098)	ND (0.097)	ND (0.1)	2.1 3000
		ND (0.097)	ND (0.098)	ND (0.096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.099)	ND (0.098)	ND (0.1)	ND (0.095)	ND (0.098)	ND (0.097)	ND (0.1)	2300
Chlorinated Pesticides by EPA 8081B (mg/k			(/		\- /	\- \- \-	\- <u>'</u>	. (,	(,		(/	. , , ,	, , , ,		
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)	Varies
Polychlorinated Biphenyls by EPA 8082A (m			, , , , , ,		, ,	, ,	, , , , , ,	. , , , , , , , ,	, ,	. ,	(. , , , , , , , , , , , , , , , , , , ,	,		
Total Polychlorinated Biphenyls	J. J.	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/l	(a)		, ,				, ,				, ,		, ,		
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)	Varies
Total Metals Analysis by EPA 6020B (mg/kg	, ,		, , , , , , , , , , , , , , , , , , , ,		,,		, , , , , , , , , , , , , , , , , , , ,		,,		, , , , ,				
Antimony	•	ND (0.302)	ND (0.308)	ND (0.299)	ND (0.314)	ND (0.313)	ND (0.313)	NA	ND (0.307)	0.322	ND (0.296)	ND (0.307)	ND (0.303)	ND (0.313)	4700
Arsenic	6.23	5.67	4.91	5.86	5.78	7.1	5.95	NA	5.54	6.2	6.59	4.95	6.06	5.06	28 ⁽¹⁾
Beryllium	1.48	1.23	1.22	1.26	1.01	1.27	1.49	NA	1.21	1.45	1.11	1.29	1.28	1.02	22000
Chromium	26.3	26	21	25	24.3	24.4	24.8	NA NA	20.8	32.9	27.1	26.3	31.7	18.2	180000 ⁽²⁾
Copper	16.3	15.4	13	22.1	15.5	18.8	14	NA NA	14.6	14	17.6	19.3	17	13.8	4700
Lead	20.1	18.1	17.7	16.8	19.1	22.3	22.7	NA NA	19.3	19.7	19.1	14.5	19.9	16.8	550
Mercury	0.0436	0.111	0.0407	0.0578	0.0523	0.0525	0.0467	NA NA	0.0498	0.0585	0.0652	0.0483	0.0418	0.0555	4.6
Nickel	22.5	19.2	17.4	27.8	19.4	25	20.2	NA NA	19.9	18.9	20.8	26.1	23.8	18.3	2200
Selenium	3.64	3.16	2.27	27.8	2.4	2.8	2.03	NA NA	3.34	3.23	1.63	2.03	3.23	2.57	580
Thallium	3.04 ND (0.303)	ND (0.302)	ND (0.308)	ND (0.299)	ND (0.314)	2.6 ND (0.313)	2.03 ND (0.313)	NA NA	3.34 ND (0.307)	0.343	1.03 ND (0.296)	2.03 ND (0.307)	3.23 ND (0.303)	ND (0.313)	
				<u> </u>				i	ND (0.307) 47			ļ		.	1.5 (3)
Zinc Maryland Department of the Environment C	51.5	42.8	45.9	49.8	45.7	50.8	44.9	NA	4/	48.2	46.8	46.1	49.6	42.5	35000
		irds for Soil and	Groundwater												

Maryland Department of the Environment Cleanup Standards for Soil and Groundwater. Published October 2018.

(1) The MDE has adopted a standard which incorporates the bioavalability. The above standard is the typical bioavailability standard enforced by the MDE.

⁽²⁾ Trivalent chromium standard

⁽³⁾ Anticipated Typical Concentration (ATC) for Central Maryland

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)