APPENDIX C. SEDIMENT SAMPLING IN CAMERON RUN

SEDIMENT SAMPLING AT CAMERON RUN
FAIRFAX COUNTY, VIRGINIA

Prepared for

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1.0 INTRODUCTION

As part of a flood control investigation for the Huntington and Huntington Station communities adjacent to Cameron Run, dredging is being evaluated as an option to help reduce flooding. The degree of contamination, if any, of the sediment to be removed and the quantity of the sediment determines the placement site. Since this sediment has not been tested recently, a sampling and analysis program was undertaken.

1.1 PROJECT LOCATION

Sediment sampling was completed along Cameron Run as shown in the figure that follows. Eight stations were sampled and analyzed for parameters as shown in Table 1.

2.0 FIELD ACTIVITIES

Sampling on Cameron Run took place on 22 August 2007. Sediment was collected at eight locations using a hand corer. Depth of penetration and depth of core recovery are shown on Table 2. A sanitary pipe crossing as identified on the map that follows was located and depth below sediment was determined to be 3.2 feet.

2.1 SAMPLE LOCATION DETERMINATION

Sampling locations for the project were defined by USACE-Baltimore District in terms of alternative segments proposed for dredging. Northing and easting coordinates (Maryland State Plane NAD83) are provided in the figure for dredging segments and sampling locations.

Positioning was determined using a Trimble ProXR DGPS (Differential Global Positioning System). The ProXR uses the United States Coast Guard Differential Beacon System to obtain sub-meter accuracy.

2.2 SEDIMENT SAMPLING

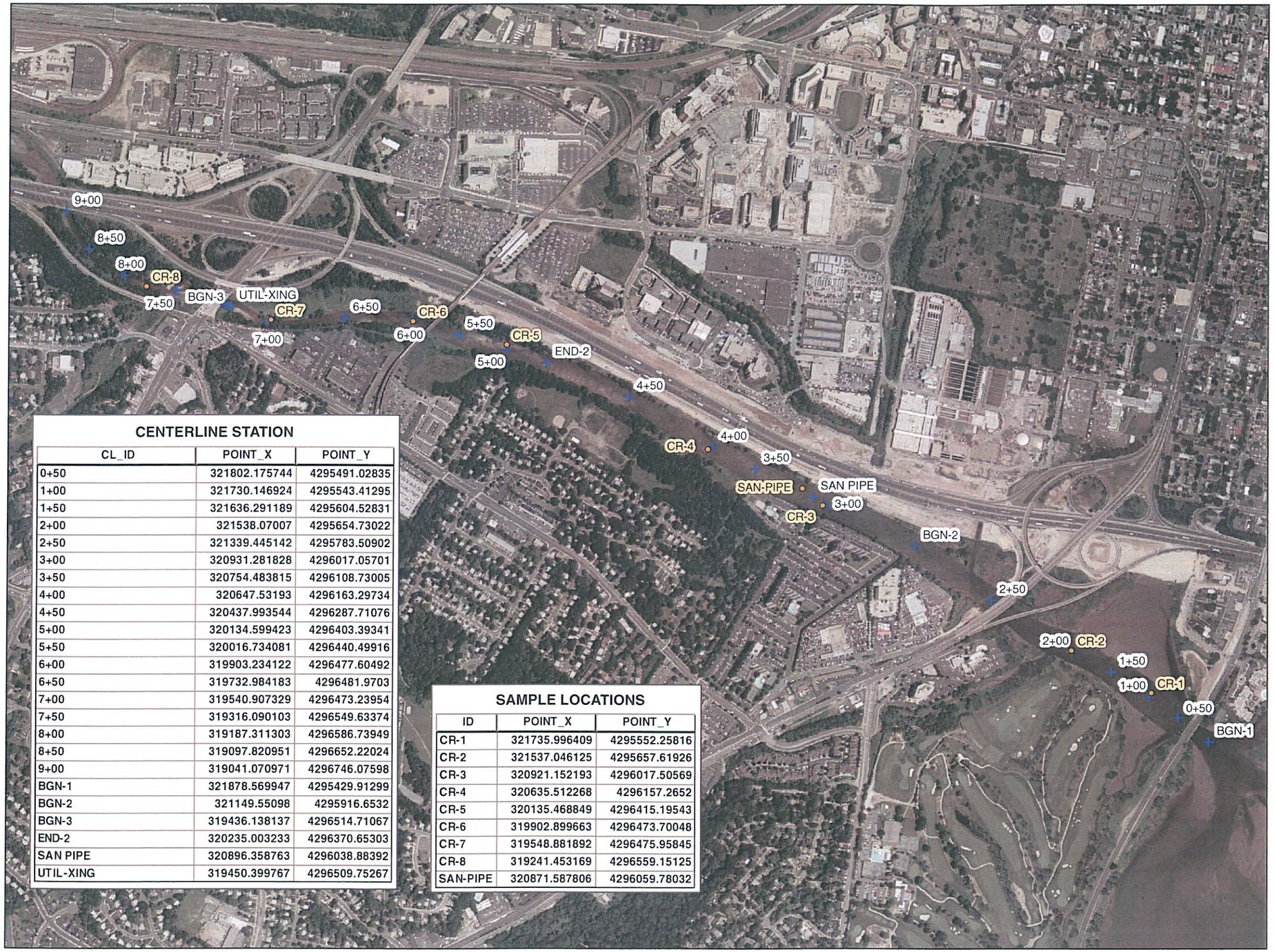
The sediment core was removed from the barrel, capped, taped, and labeled. Sediment cores were stored on ice during the project duration until delivery to EA's facility in Sparks, Maryland. Upon delivery, cores were placed in a refrigerated unit at 4^0 Celsius.

3.0 ANALYTICAL METHODS

Analytical testing of sediment was completed by STL-Pittsburgh. Appendix A contains the laboratory chain-of-custodies submitted with the samples upon completion of field sampling. Methods are shown on Table 1. The analytical program is in accordance with the requirements for disposal at Possum Point as defined by the facility's permit from VDEQ.

4.0 ANALYTICAL RESULTS

Results for grain size, Atterberg limits, nutrients and total organic carbon are presented in Table 2. Results for metals, volatile organics, semivolatile organics, PAH, PCB Aroclors, chlorinated pesticides, tributyltin, total petroleum hydrocarbons, and cyanide as well as the TCLP analytes are reported on the Virginia Department of Environmental Quality Dredge Spoil Monitoring Forms that follow Table 2.

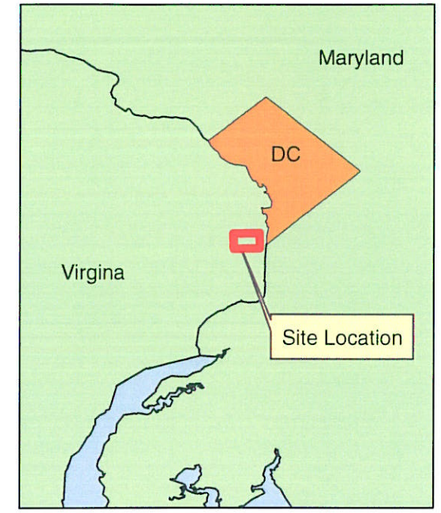


CENTERLINE STATION

CL_ID	POINT_X	POINT_Y
0+50	321802.175744	4295491.02835
1+00	321730.146924	4295543.41295
1+50	321636.291189	4295604.52831
2+00	321538.07007	4295654.73022
2+50	321339.445142	4295783.50902
3+00	320931.281828	4296017.05701
3+50	320754.483815	4296108.73005
4+00	320647.53193	4296163.29734
4+50	320437.993544	4296287.71076
5+00	320134.599423	4296403.39341
5+50	320016.734081	4296440.49916
6+00	319903.234122	4296477.60492
6+50	319732.984183	4296481.9703
7+00	319540.907329	4296473.23954
7+50	319316.090103	4296549.63374
8+00	319187.311303	4296586.73949
8+50	319097.820951	4296652.22024
9+00	319041.070971	4296746.07598
BGN-1	321878.569947	4295429.91299
BGN-2	321149.55098	4295916.6532
BGN-3	319436.138137	4296514.71067
END-2	320235.003233	4296370.65303
SAN PIPE	320896.358763	4296038.88392
UTIL-XING	319450.399767	4296509.75267

SAMPLE LOCATIONS

ID	POINT_X	POINT_Y
CR-1	321735.996409	4295552.25816
CR-2	321537.046125	4295657.61926
CR-3	320921.152193	4296017.50569
CR-4	320635.512268	4296157.2652
CR-5	320135.468849	4296415.19543
CR-6	319902.899663	4296473.70048
CR-7	319548.881892	4296475.95845
CR-8	319241.453169	4296559.15125
SAN-PIPE	320871.587806	4296059.78032



Legend

+ Centerline Station

o Sampling Locations

Huntington Flood Damage Reduction Study
Potential Dredging Alternatives

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Cameron Run - Laboratory Analyses Required

	Physical Analyses							Bulk Chemistry Parameters													TCLP Analyses									
Sample ID	Atterberg Limits(D4318)	Total Kjeldahl Nitrogen(351.3)	Total Phosphorus(365.2)	Sulfide by Titration(SW 9030B/9034)	Total Organic Combustion by High Temp. Combustion	Grain Size(ASTM D422)		Solids	Chromium VI(7196A)	Volatile Organics by GC/MS(SW 8260B)	Semivolatile Organics by GC/MS(SW 8270C)	Metals(SW 6010B/7471A)	PAHs(SW 8310)	PCB Aroclors(SW 8082)	Chlorinated Pesticides(SW 8081A)	Organophosphorus Pesticides by GC(SW 8141A)	Tributyltin(STL-SOP)	Total Petroleum Hydrocarbons(SW 9035)	Cyanide by Automated Colorimetry(SW 9012A)		Semivolatile Organics by GC/MS(SW 1311/8270C)	Metals(SW 1311/6010B/7470A)	Pesticides(SW1311/8081A)	Volatiles(SW 1311/8260B)	Herbicides(SW 1311/8151A)	TCLP Extraction(SW 1311)	ZHE Extraction(SW 1311)	Corrosivity(SW 9045C)	Ignitibility(SW 1010)	
CR07-1*	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	
CR07-2*	X	X	X	X	X	X																								
CR07-3	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	
CR07-4	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	
CR07-5	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	
CR07-6*	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	
CR07-7*	X	X	X	X	X	X																								
CR07-8	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	

* - samples will be combined for chemical analyses; physical analyses for each location

Table 2 Cameron Run Sediment General Chemistry and Physical Parameters

ANALYTE	UNITS	AVGRL	CR07-1	CR07-2	CR07-3	CR07-4	CR07-5	CR07-6	CR07-7	CR07-8
DEPTH OF PENETRATION	Feet		4	3	3.7	4.3	4	3.5	2.2	3.3
DEPTH OF RECOVERY	Feet		3.2	2.5	3.1	3.2	3.2	2.2	0.8	1.8
GENERAL CHEMISTRY										
TOTAL KJELDAHL NITROGEN	MG/KG	195.5	158 B	150 B	154 B	232	257	145 B	178 B	107 B
TOTAL ORGANIC CARBON	MG/KG	1951.3	8920	955 B	1570	4220	2580	1180 B	2250	924 B
TOTAL PHOSPHORUS	MG/KG	26.3	280	68.8	73.7	77	195	105	56.1	54.4
TOTAL SULFIDE	MG/KG	39.1	41.3 U	39.3 U	40.4 U	40.6 U	38.5 U	38.1 U	37.3 U	37.3 U
GRAIN SIZE										
CLAY	%	--	21.1	0.8	2.1	3.1	4.4	1.6	12.7	0.9
GRAVEL	%	--	0	5	1.5	2.9	13.2	11.7	40.2	46.9
SILT	%	--	20.9	4.5	1.5	8.8	5.2	5.3	19.8	1.6
COARSE SAND	%	--	0	0.8	2.5	2.4	9.8	5.7	6.3	11.4
FINE SAND	%	--	45.4	44.4	37.3	42.9	19.5	25.6	4.3	12.4
MEDIUM SAND	%	--	12.6	44.5	55.1	39.9	48	50	16.8	26.8
SAND	%	--	58	89.7	94.9	85.2	77.3	81.3	27.4	50.6
PHYSICAL PROPERTIES										
LIQUID LIMIT	--	--	0	0	0	0	0	0	0	0
PLASTIC LIMIT	--	--	0	0	0	0	0	0	0	0
PLASTICITY INDEX	--	--	NP	NP	NP	NP	NP	NP	NP	NP

B = Estimated result. Result is between the method detection limit (MDL) and reporting limit (RL).
U = Result is less than the reporting limit (RL).

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Facility Name: Virginia Power--Possum Point **VPDES PERMIT NO.: VA0002017**
DATE: **PROJECT: Cameron Run CR07-1/2**

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification [1] Level (mg/l)	Reporting [2] Results (mg/l)	Sample [3] Type	Threshold Levels (mg/l)
Toxicity Characteristic Leaching Procedure Parameters with Threshold Levels (Part A)							
033	7440-38-2	Arsenic	1311	0.5	**0.19**	C	5
151	7440-39-3	Barium	1311	10	**0.26**	C	100
216	71-43-2	Benzene	1311	0.05	0.05	C	3
096	7440-43-9	Cadmium	1311	0.1	0.1	C	1
236	56-23-5	Carbon tetrachloride	1311	0.05	0.05	C	0.5
333	57-74-9	Chlordane	1311	0.005	0.005	C	0.03
280	108-90-7	Chlorobenzene	1311	0.05	0.05	C	100
223	67-66-3	Chloroform	1311	0.05	0.05	C	6
016	7440-47-3	Chromium	1311	0.5	**0.0025**	C	5
510	95-48-7	o-Cresol*	---	---	---	---	200
509	108-39-4	m-Cresol*	---	---	---	---	200
511	106-44-5	p-Cresol*	---	---	---	---	200
512	---	Cresols, Total	1311	0.05	0.05	C	200
266	106-46-7	1,4-Dichlorobenzene	1311	0.05	0.05	C	7.5
260	107-06-2	1,2-Dichloroethane	1311	0.05	0.05	C	0.5
258	75-35-4	1,1-Dichloroethylene	1311	0.05	0.05	C	0.7
239	121-14-2	2,4-Dinitrotoluene	1311	0.05	0.05	C	0.13
339	72-20-8	Endrin	1311	0.0005	0.0005	C	0.02
341	76-44-8	Heptachlor	1311	0.0005	0.0005	C	0.008
289	118-74-1	Hexachlorobenzene	1311	0.05	0.05	C	0.13
290	87-68-3	Hexachlorobutadiene	1311	0.05	0.05	C	0.5
291	67-72-1	Hexachloroethane	1311	0.05	0.05	C	5
034	7439-92-1	Lead	1311	0.50	**0.034**	C	5
342	58-89-9	Hexachlorocyclohexane (Lindane)	1311	0.0005	0.0005	C	0.4
042	7439-97-6	Mercury	1311	0.0002	0.0002	C	0.2
344	72-43-5	Methoxychlor	1311	0.001	0.001	C	10
---	78-93-3	Methyl Ethyl Ketone (MEK)	1311	0.05	0.05	C	200
294	98-95-3	Nitrobenzene	1311	0.05	0.05	C	2
210	87-86-5	Pentachlorophenol	1311	0.25	0.25	C	100
---	110-86-1	Pyridine	1311	0.25	0.25	C	5
152	7782-49-2	Selenium	1311	0.25	0.25	C	1
037	7440-22-4	Silver	1311	0.5	0.5	C	5
220	127-18-4	Tetrachloroethylene	1311	0.05	0.05	C	0.7
349	8001-35-2	Toxaphene	1311	0.02	0.02	C	0.5
602	79-01-6	Trichloroethylene	1311	0.05	0.05	C	0.5
601	95-95-4	2,4,5-Trichlorophenol	1311	0.05	0.05	C	400
602	88-06-2	2,4,6-Trichlorophenol	1311	0.05	0.05	C	2
173	75-01-4	Vinyl chloride	1311	0.05	0.05	C	0.2

* If o-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol concentration is used.

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Facility Name: Virginia Power--Possum Point **VPDES PERMIT NO.: VA0002017**
DATE: **PROJECT: Cameron Run CR07-1/2**

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification [1] Level (mg/kg)	Reporting [2] Results (mg/kg)	Units	Sample [3] Type
Metals (Part B.1.)							
178	7440-36-0	Antimony	SW6010B-T	0.1	**0.4**	mg/kg	C
457	7440-38-2	Arsenic	SW6010B-T	0.2	**1.5**	mg/kg	C
441	7440-47-3	Chromium	SW6010B-T	0.1	**8.2**	mg/kg	C
231	18540-29-9	Chromium, VI	SW7196	0.17	0.17	mg/kg	C
442	7440-50-8	Copper	SW6010B-T	0.1	**8.5**	mg/kg	C
445	7440-02-0	Nickel	SW6010B-T	0.1	**4.9**	mg/kg	C
---	7440-28-0	Thallium	SW6010B-T	0.31	0.31	mg/kg	C
448	7440-66-6	Zinc	SW6010B-T	0.3	**36.5**	mg/kg	C
Pesticides/PCBs (Part B.2.)							
332	309-00-2	Aldrin	SW8081A	0.0016	**0.0034**	mg/kg	C
334	2921-88-2	Chlorpyrifos	SW8141A	0.032	0.032	mg/kg	C
---	72-54-8	4,4'-DDD	SW8081A	0.0016	**0.00043**	mg/kg	C
---	72-55-9	4,4'-DDE	SW8081A	0.0016	**0.0017**	mg/kg	C
335	50-29-3	4,4'-DDT	SW8081A	0.0016	0.0016	mg/kg	C
336	8065-48-3	Demeton	SW8141A	0.032	0.032	mg/kg	C
337	60-57-1	Dieldrin	SW8081A	0.0016	0.0016	mg/kg	C
746	959-98-8	Endosulfan I	SW8081A	0.0016	0.0016	mg/kg	C
640	33213-65-9	Endosulfan II	SW8081A	0.0016	0.0016	mg/kg	C
617	1031-07-8	Endosulfan sulfate	SW8081A	0.0016	**0.00046**	mg/kg	C
---	7421-93-4	Endrin aldehyde	SW8081A	0.0016	0.0016	mg/kg	C
340	86-50-0	Azinphos methyl	SW8141A	0.032	0.032	mg/kg	C
---	1024-57-3	Heptachlor epoxide	SW8081A	0.0016	0.0016	mg/kg	C
---	319-84-6	Alpha-BHC	SW8081A	0.0016	0.0016	mg/kg	C
---	319-85-7	Beta-BHC	SW8081A	0.0016	0.0016	mg/kg	C
---	143-50-0	Kepone	SW8270C	1.2	1.2	mg/kg	C
343	121-75-5	Malathion	SW8141A	0.03	0.032	mg/kg	C
345	2385-85-5	Mirex	SW8081A	0.0016	0.0016	mg/kg	C
346	56-38-2	Methyl parathion	SW8141A	0.032	0.032	mg/kg	C
---	1336-36-3	Total PCB	---	---	---	---	---
641	53469-21-9	Aroclor 1242	SW8082	0.016	0.016	mg/kg	C
642	11097-69-1	Aroclor 1254	SW8082	0.016	0.016	mg/kg	C
643	11104-28-2	Aroclor 1221	SW8082	0.016	0.016	mg/kg	C
644	11141-16-5	Aroclor 1232	SW8082	0.016	0.016	mg/kg	C
645	12672-29-6	Aroclor 1248	SW8082	0.016	**0.014**	mg/kg	C
618	11096-82-5	Aroclor 1260	SW8082	0.016	0.016	mg/kg	C
646	12674-11-2	Aroclor 1016	SW8082	0.016	**0.023**	mg/kg	C
Base Neutral Extractable (Part B.3.)							
273	83-32-9	Acenaphthene	SW8310	0.032	0.032	mg/kg	C
275	120-12-7	Anthracene	SW8310	0.0064	**0.0043**	mg/kg	C
---	92-87-5	Benzidine	SW8270C	6.3	6.3	mg/kg	C
276	56-55-3	Benzo(a)anthracene	SW8310	0.0064	**0.019**	mg/kg	C

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Facility Name: Virginia Power--Possum Point **VPDES PERMIT NO.: VA0002017**
DATE: **PROJECT: Cameron Run CR07-1/2**

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification [1] Level (mg/kg)	Reporting [2] Results (mg/kg)	Units	Sample [3] Type
648	205-99-2	Benzo(b)fluoranthene	SW8310	0.006	**0.048**	mg/kg	C
278	207-08-9	Benzo(k)fluoranthene	SW8310	0.006	**0.022**	mg/kg	C
277	50-32-8	Benzo(a)pyrene	SW8310	0.006	**0.03**	mg/kg	C
---	111-44-4	Bis(2-Chloroethyl) Ether	SW8270C	0.064	0.064	mg/kg	C
486	85-68-7	Butyl benzyl phthalate	SW8270C	0.31	0.31	mg/kg	C
---	91-58-7	2-Chloronaphthalene	SW8270C	0.064	0.064	mg/kg	C
282	218-01-9	Chrysene	SW8310	0.006	**0.03**	mg/kg	C
654	53-70-3	Dibenzo(a,h)anthracene	SW8310	0.006	0.0064	mg/kg	C
206	84-74-2	Di-n-butyl phthalate	SW8270C	0.31	0.31	mg/kg	C
259	95-50-1	1,2-Dichlorobenzene	SW8270C	0.064	0.064	mg/kg	C
264	541-73-1	1,3-Dichlorobenzene	SW8270C	0.064	0.064	mg/kg	C
527	91-94-1	3,3'-Dichlorobenzidine	SW8270C	0.31	0.31	mg/kg	C
285	84-66-2	Diethyl Phthalate	SW8270C	0.31	0.31	mg/kg	C
170	117-81-7	Bis(2-Ethylhexyl) Phthalate	SW8270C	0.31	**0.26**	mg/kg	C
286	131-11-3	Dimethyl phthalate	SW8270C	0.31	0.31	mg/kg	C
535	122-66-7	1,2-Diphenylhydrazine	SW8270C	0.064	0.064	mg/kg	C
287	206-44-0	Fluoranthene	SW8310	0.006	**0.055**	mg/kg	C
288	86-73-7	Fluorene	SW8310	0.006	**0.0027**	mg/kg	C
538	77-47-4	Hexachlorocyclopentadiene	SW8270C	0.31	0.31	mg/kg	C
651	193-39-5	Indeno(1,2,3-cd)pyrene	SW8310	0.006	**0.025**	mg/kg	C
650	78-59-1	Isophorone	SW8270C	0.31	0.31	mg/kg	C
293	91-20-3	Naphthalene	SW8310	0.032	0.032	mg/kg	C
573	62-75-9	N-Nitrosodimethylamine	SW8270C	0.31	0.31	mg/kg	C
574	86-30-6	N-Nitrosodiphenylamine	SW8270C	0.31	0.31	mg/kg	C
575	621-64-7	N-Nitrosodi-N-Propylamine	SW8270C	0.064	0.064	mg/kg	C
296	129-00-0	Pyrene	SW8310	0.006	**0.043**	mg/kg	C
263	120-82-1	1,2,4-Trichlorobenzene	SW8270C	0.31	0.31	mg/kg	C
Volatiles (Part B.4.)							
171	107-02-8	Acrolein	SW8260B	0.14	0.14	mg/kg	C
204	107-13-1	Acrylonitrile	SW8260B	0.14	0.14	mg/kg	C
484	75-25-2	Bromoform	SW8260B	0.0069	0.0069	mg/kg	C
652	124-48-1	Chlorodibromomethane	SW8260B	0.0069	0.0069	mg/kg	C
649	75-09-2	Methylene Chloride	SW8260B	0.0069	0.0025	mg/kg	C
244	75-27-4	Dichlorobromomethane	SW8260B	0.0069	0.0069	mg/kg	C
262	156-60-5	Trans-1,2-Dichloroethene	SW8260B	0.0069	0.0069	mg/kg	C
261	78-87-5	1,2-Dichloropropane	SW8260B	0.0069	0.0069	mg/kg	C
265	542-75-6	1,3-Dichloropropene	---	---	---	---	---
172	100-41-4	Ethylbenzene	SW8260B	0.0069	0.0019	mg/kg	C
---	74-83-9	Bromomethane	SW8260B	0.0069	0.0069	mg/kg	C
---	78-93-3	Methyl Ethyl Ketone (MEK)	SW8260B	0.0069	0.0023	mg/kg	C
596	79-34-5	1,1,2,2-Tetrachloroethane	SW8260B	0.0069	0.0069	mg/kg	C

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring

Facility Name: Virginia Power--Possum Point **VPDES PERMIT NO.: VA0002017**
DATE: **PROJECT: Cameron Run CR07-1/2**

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification [1] Level (mg/kg)	Reporting [2] Results (mg/kg)	Units	Sample [3] Type
222	108-88-3	Toluene	SW8260B	0.0069	0.0069	mg/kg	C
373	79-00-5	1,1,2-Trichloroethane	SW8260B	0.0069	0.0069	mg/kg	C
155	79-01-6	Trichloroethylene	SW8260B	0.0069	0.0069	mg/kg	C
Acids Extractables (Part B.5.)							
267	95-57-8	2-Chlorophenol	SW8270C	0.31	0.31	mg/kg	C
268	120-83-2	2,4-Dichlorophenol	SW8270C	0.064	0.064	mg/kg	C
269	105-67-9	2,4-Dimethylphenol	SW8270C	0.31	0.31	mg/kg	C
---	534-52-1	2-Methyl-4,6-Dinitrophenol	SW8270C	1.5	1.5	mg/kg	C
270	51-28-5	2,4-Dinitrophenol	SW8270C	1.6	1.6	mg/kg	C
175	108-95-2	Phenol	SW8270C	0.064	0.064	mg/kg	C
Miscellaneous (Part B.6.)							
018	57-12-5	Cyanide, Total	SW9012A	0.69	**0.24**	mg/kg	C
306	---	Dioxin	---	---	---	---	---
350	1461-22-9	Tributyltin	STL	0.002	0.002	mg/kg	C
257	---	Total Petroleum Hydrocarbons (TPH)	SW9035	229	229	mg/kg	C

I certify under penalty of law that this documenta and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the pweson or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. P1001 and 33 U.S.C. P 1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent | Title

Signature of Principal Executive Officer or Authorized Agent | Date

Footnotes to Water Quality Monitoring Attachment B

[1] Quantification Level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method. In this case it is the Reporting Limit (RL).

[2] Results for chemicals that were detected are in bold and shaded.

[3] Sample Type: C = core sample

Any Approved method presented in 40 CFR Part 136

The QL is at the discretion of the permittee. For any substance addressed in 40CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Par 136.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
Attachment B, Page 1 of 4

Facility Name: Virginia Power--Possum Point **VPDES PERMIT NO.: VA0002017**
DATE: **PROJECT: Cameron Run CR07-3**

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification [1] Level (mg/l)	Reporting [2] Results (mg/l)	Sample [3] Type	Threshold Levels (mg/l)
Toxicity Characteristic Leaching Procedure Parameters with Threshold Levels (Part A)							
033	7440-38-2	Arsenic	1311	0.5	**0.18**	C	5
151	7440-39-3	Barium	1311	10	**0.18**	C	100
216	71-43-2	Benzene	1311	0.05	0.05	C	3
096	7440-43-9	Cadmium	1311	0.1	0.1	C	1
236	56-23-5	Carbon tetrachloride	1311	0.05	0.05	C	0.5
333	57-74-9	Chlordane	1311	0.005	0.005	C	0.03
280	108-90-7	Chlorobenzene	1311	0.05	0.05	C	100
223	67-66-3	Chloroform	1311	0.05	0.05	C	6
016	7440-47-3	Chromium	1311	0.5	**0.0083**	C	5
510	95-48-7	o-Cresol*	---	---	---	---	200
509	108-39-4	m-Cresol*	---	---	---	---	200
511	106-44-5	p-Cresol*	---	---	---	---	200
512	---	Cresols, Total	1311	0.05	0.05	C	200
266	106-46-7	1,4-Dichlorobenzene	1311	0.05	0.05	C	7.5
260	107-06-2	1,2-Dichloroethane	1311	0.05	0.05	C	0.5
258	75-35-4	1,1-Dichloroethylene	1311	0.05	0.05	C	0.7
239	121-14-2	2,4-Dinitrotoluene	1311	0.05	0.05	C	0.13
339	72-20-8	Endrin	1311	0.0005	0.0005	C	0.02
341	76-44-8	Heptachlor	1311	0.0005	0.0005	C	0.008
289	118-74-1	Hexachlorobenzene	1311	0.05	0.05	C	0.13
290	87-68-3	Hexachlorobutadiene	1311	0.05	0.05	C	0.5
291	67-72-1	Hexachloroethane	1311	0.05	0.05	C	5
034	7439-92-1	Lead	1311	0.5	**0.051**	C	5
342	58-89-9	Hexachlorocyclohexane (Lindane	1311	0.0005	0.0005	C	0.4
042	7439-97-6	Mercury	1311	0.0002	0.0002	C	0.2
344	72-43-5	Methoxychlor	1311	0.001	0.001	C	10
---	78-93-3	Methyl Ethyl Ketone (MEK)	1311	0.05	0.05	C	200
294	98-95-3	Nitrobenzene	1311	0.05	0.05	C	2
210	87-86-5	Pentachlorophenol	1311	0.25	0.25	C	100
---	110-86-1	Pyridine	1311	0.25	0.25	C	5
152	7782-49-2	Selenium	1311	0.25	0.25	C	1
037	7440-22-4	Silver	1311	0.5	0.5	C	5
220	127-18-4	Tetrachloroethylene	1311	0.05	0.05	C	0.7
349	8001-35-2	Toxaphene	1311	0.02	0.02	C	0.5
602	79-01-6	Trichloroethylene	1311	0.05	0.05	C	0.5
601	95-95-4	2,4,5-Trichlorophenol	1311	0.05	0.05	C	400
602	88-06-2	2,4,6-Trichlorophenol	1311	0.05	0.05	C	2
173	75-01-4	Vinyl chloride	1311	0.05	0.05	C	0.2

* If o-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol concentration is used.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
Attachment B, Page 2 of 4

Facility Name: Virginia Power--Possum Point **VPDES PERMIT NO.: VA0002017**
DATE: **PROJECT: Cameron Run CR07-3**

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification [1] Level (mg/kg)	Reporting [2] Results (mg/kg)	Units	Sample [3] Type
Metals (Part B.1.)							
178	7440-36-0	Antimony	SW6010B-T	0.09	0.087	mg/kg	C
457	7440-38-2	Arsenic	SW6010B-T	0.2	**2.1**	mg/kg	C
441	7440-47-3	Chromium	SW6010B-T	0.1	**33.1**	mg/kg	C
231	18540-29-9	Chromium, VI	SW7196	0.17	0.17	mg/kg	C
442	7440-50-8	Copper	SW6010B-T	0.1	**25.8**	mg/kg	C
445	7440-02-0	Nickel	SW6010B-T	0.1	**5.9**	mg/kg	C
---	7440-28-0	Thallium	SW6010B-T	0.30	**0.77**	mg/kg	C
448	7440-66-6	Zinc	SW6010B-T	0.3	**57.4**	mg/kg	C
Pesticides/PCBs (Part B.2.)							
332	309-00-2	Aldrin	SW8081A	0.0016	**0.0018**	mg/kg	C
334	2921-88-2	Chlorpyrifos	SW8141A	0.031	0.031	mg/kg	C
---	72-54-8	4,4'-DDD	SW8081A	0.0016	**0.0011**	mg/kg	C
---	72-55-9	4,4'-DDE	SW8081A	0.0016	**0.0018**	mg/kg	C
335	50-29-3	4,4'-DDT	SW8081A	0.0016	0.0016	mg/kg	C
336	8065-48-3	Demeton	SW8141A	0.031	0.031	mg/kg	C
337	60-57-1	Dieldrin	SW8081A	0.0016	**0.00061**	mg/kg	C
746	959-98-8	Endosulfan I	SW8081A	0.0016	0.0016	mg/kg	C
640	33213-65-9	Endosulfan II	SW8081A	0.0016	**0.00042**	mg/kg	C
617	1031-07-8	Endosulfan sulfate	SW8081A	0.0016	**0.00043**	mg/kg	C
---	7421-93-4	Endrin aldehyde	SW8081A	0.0016	0.0016	mg/kg	C
340	86-50-0	Azinphos methyl	SW8141A	0.031	0.031	mg/kg	C
---	1024-57-3	Heptachlor epoxide	SW8081A	0.0016	**0.00035**	mg/kg	C
---	319-84-6	Alpha-BHC	SW8081A	0.0016	0.0016	mg/kg	C
---	319-85-7	Beta-BHC	SW8081A	0.0016	0.0016	mg/kg	C
---	143-50-0	Kepone	SW8270C	1.2	1.2	mg/kg	C
343	121-75-5	Malathion	SW8141A	0.031	0.031	mg/kg	C
345	2385-85-5	Mirex	SW8081A	0.0016	0.0016	mg/kg	C
346	56-38-2	Methyl parathion	SW8141A	0.031	0.031	mg/kg	C
---	1336-36-3	Total PCB	---	---	---	---	---
641	53469-21-9	Aroclor 1242	SW8082	0.016	0.016	mg/kg	C
642	11097-69-1	Aroclor 1254	SW8082	0.016	0.016	mg/kg	C
643	11104-28-2	Aroclor 1221	SW8082	0.016	0.016	mg/kg	C
644	11141-16-5	Aroclor 1232	SW8082	0.016	0.016	mg/kg	C
645	12672-29-6	Aroclor 1248	SW8082	0.016	**0.037**	mg/kg	C
618	11096-82-5	Aroclor 1260	SW8082	0.016	0.016	mg/kg	C
646	12674-11-2	Aroclor 1016	SW8082	0.016	**0.044**	mg/kg	C
Base Neutral Extractable (Part B.3.)							
273	83-32-9	Acenaphthene	SW8310	0.031	0.031	mg/kg	C
275	120-12-7	Anthracene	SW8310	0.0063	**0.0058**	mg/kg	C
---	92-87-5	Benzidine	SW8270C	6.2	6.2	mg/kg	C
276	56-55-3	Benzo(a)anthracene	SW8310	0.006	**0.033**	mg/kg	C

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
Attachment B, Page 3 of 4

Facility Name: Virginia Power--Possum Point **VPDES PERMIT NO.: VA0002017**
DATE: **PROJECT: Cameron Run CR07-3**

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification [1] Level (mg/kg)	Reporting [2] Results (mg/kg)	Units	Sample [3] Type
648	205-99-2	Benzo(b)fluoranthene	SW8310	0.006	**0.082**	mg/kg	C
278	207-08-9	Benzo(k)fluoranthene	SW8310	0.006	**0.025**	mg/kg	C
277	50-32-8	Benzo(a)pyrene	SW8310	0.006	**0.074**	mg/kg	C
---	111-44-4	Bis(2-Chloroethyl) Ether	SW8270C	0.062	0.062	mg/kg	C
486	85-68-7	Butyl benzyl phthalate	SW8270C	0.31	0.31	mg/kg	C
---	91-58-7	2-Chloronaphthalene	SW8270C	0.062	0.062	mg/kg	C
282	218-01-9	Chrysene	SW8310	0.006	**0.052**	mg/kg	C
654	53-70-3	Dibenzo(a,h)anthracene	SW8310	0.0063	0.0063	mg/kg	C
206	84-74-2	Di-n-butyl phthalate	SW8270C	0.31	0.31	mg/kg	C
259	95-50-1	1,2-Dichlorobenzene	SW8270C	0.062	0.062	mg/kg	C
264	541-73-1	1,3-Dichlorobenzene	SW8270C	0.062	0.062	mg/kg	C
527	91-94-1	3,3'-Dichlorobenzidine	SW8270C	0.31	0.31	mg/kg	C
285	84-66-2	Diethyl Phthalate	SW8270C	0.31	0.31	mg/kg	C
170	117-81-7	Bis(2-Ethylhexyl) Phthalate	SW8270C	0.3	**0.1**	mg/kg	C
286	131-11-3	Dimethyl phthalate	SW8270C	0.31	0.31	mg/kg	C
535	122-66-7	1,2-Diphenylhydrazine	SW8270C	0.062	0.062	mg/kg	C
287	206-44-0	Fluoranthene	SW8310	0.006	**0.099**	mg/kg	C
288	86-73-7	Fluorene	SW8310	0.0063	**0.0044**	mg/kg	C
538	77-47-4	Hexachlorocyclopentadiene	SW8270C	0.31	0.31	mg/kg	C
651	193-39-5	Indeno(1,2,3-cd)pyrene	SW8310	0.01	**0.08**	mg/kg	C
650	78-59-1	Isophorone	SW8270C	0.31	0.31	mg/kg	C
293	91-20-3	Naphthalene	SW8310	0.031	0.031	mg/kg	C
573	62-75-9	N-Nitrosodimethylamine	SW8270C	0.31	0.31	mg/kg	C
574	86-30-6	N-Nitrosodiphenylamine	SW8270C	0.31	0.31	mg/kg	C
575	621-64-7	N-Nitrosodi-N-Propylamine	SW8270C	0.062	0.062	mg/kg	C
296	129-00-0	Pyrene	SW8310	0.006	**0.073**	mg/kg	C
263	120-82-1	1,2,4-Trichlorobenzene	SW8270C	0.31	0.31	mg/kg	C
Volatiles (Part B.4.)							
171	107-02-8	Acrolein	SW8260B	0.13	0.13	mg/kg	C
204	107-13-1	Acrylonitrile	SW8260B	0.13	0.13	mg/kg	C
484	75-25-2	Bromoform	SW8260B	0.0067	0.0067	mg/kg	C
652	124-48-1	Chlorodibromomethane	SW8260B	0.0067	0.0067	mg/kg	C
649	75-09-2	Methylene Chloride	SW8260B	0.0067	**0.0017**	mg/kg	C
244	75-27-4	Dichlorobromomethane	SW8260B	0.0067	0.0067	mg/kg	C
262	156-60-5	Trans-1,2-Dichloroethene	SW8260B	0.0067	0.0067	mg/kg	C
261	78-87-5	1,2-Dichloropropane	SW8260B	0.0067	0.0067	mg/kg	C
265	542-75-6	1,3-Dichloropropene	---	---	---	---	---
172	100-41-4	Ethylbenzene	SW8260B	0.0067	0.0067	mg/kg	C
---	74-83-9	Bromomethane	SW8260B	0.0067	0.0067	mg/kg	C
---	78-93-3	Methyl Ethyl Ketone (MEK)	SW8260B	0.0067	0.0067	mg/kg	C
596	79-34-5	1,1,2,2-Tetrachloroethane	SW8260B	0.0067	0.0067	mg/kg	C

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
Attachment B, Page 4 of 4

Facility Name: Virginia Power--Possum Point **VPDES PERMIT NO.: VA0002017**
DATE: **PROJECT: Cameron Run CR07-3**

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification [1] Level (mg/kg)	Reporting [2] Results (mg/kg)	Units	Sample [3] Type
222	108-88-3	Toluene	SW8260B	0.0067	0.0067	mg/kg	C
373	79-00-5	1,1,2-Trichloroethane	SW8260B	0.0067	0.0067	mg/kg	C
155	79-01-6	Trichloroethylene	SW8260B	0.0067	0.0067	mg/kg	C
Acids Extractables (Part B.5.)							
267	95-57-8	2-Chlorophenol	SW8270C	0.31	0.31	mg/kg	C
268	120-83-2	2,4-Dichlorophenol	SW8270C	0.062	0.062	mg/kg	C
269	105-67-9	2,4-Dimethylphenol	SW8270C	0.31	0.31	mg/kg	C
---	534-52-1	2-Methyl-4,6-Dinitrophenol	SW8270C	1.5	1.5	mg/kg	C
270	51-28-5	2,4-Dinitrophenol	SW8270C	1.6	1.6	mg/kg	C
175	108-95-2	Phenol	SW8270C	0.062	0.062	mg/kg	C
Miscellaneous (Part B.6.)							
018	57-12-5	Cyanide, Total	SW9012A	0.67	**0.21**	mg/kg	C
306	---	Dioxin	---	---	---	---	---
350	1461-22-9	Tributyltin	STL	0.002	0.002	mg/kg	C
257	---	Total Petroleum Hydrocarbons (TPH)	SW9035	225	225	mg/kg	C

I certify under penalty of law that this documenta and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the pweson or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. P1001 and 33 U.S.C. P 1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent | Title

Signature of Principal Executive Officer or Authorized Agent | Date

Footnotes to Water Quality Monitoring Attachment B

[1] Quantification Level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method. In this case it is the Reporting Limit (RL).

[2] Results for chemicals that were detected are in bold and shaded.

[3] Sample Type: C = core sample

Any Approved method presented in 40 CFR Part 136

The QL is at the discretion of the permittee. For any substance addressed in 40CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Par 136.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
Attachment B, Page 1 of 4

Facility Name: Virginia Power--Possum Point **VPDES PERMIT NO.: VA0002017**
DATE: **PROJECT: Cameron Run CR07-4**

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification [1] Level (mg/l)	Reporting [2] Results (mg/l)	Sample [3] Type	Threshold Levels (mg/l)
Toxicity Characteristic Leaching Procedure Parameters with Threshold Levels (Part A)							
033	7440-38-2	Arsenic	1311	0.5	**0.2**	C	5
151	7440-39-3	Barium	1311	10	**0.2**	C	100
216	71-43-2	Benzene	1311	0.05	0.05	C	3
096	7440-43-9	Cadmium	1311	0.1	0.1	C	1
236	56-23-5	Carbon tetrachloride	1311	0.05	0.05	C	0.5
333	57-74-9	Chlordane	1311	0.005	0.005	C	0.03
280	108-90-7	Chlorobenzene	1311	0.05	0.05	C	100
223	67-66-3	Chloroform	1311	0.05	0.05	C	6
016	7440-47-3	Chromium	1311	0.5	**0.024**	C	5
510	95-48-7	o-Cresol*	---	---	---	---	200
509	108-39-4	m-Cresol*	---	---	---	---	200
511	106-44-5	p-Cresol*	---	---	---	---	200
512	---	Cresols, Total	1311	0.05	0.05	C	200
266	106-46-7	1,4-Dichlorobenzene	1311	0.05	0.05	C	7.5
260	107-06-2	1,2-Dichloroethane	1311	0.05	0.05	C	0.5
258	75-35-4	1,1-Dichloroethylene	1311	0.05	0.05	C	0.7
239	121-14-2	2,4-Dinitrotoluene	1311	0.05	0.05	C	0.13
339	72-20-8	Endrin	1311	0.0005	0.0005	C	0.02
341	76-44-8	Heptachlor	1311	0.0005	0.0005	C	0.008
289	118-74-1	Hexachlorobenzene	1311	0.05	**0.05**	C	0.13
290	87-68-3	Hexachlorobutadiene	1311	0.05	0.05	C	0.5
291	67-72-1	Hexachloroethane	1311	0.05	0.05	C	5
034	7439-92-1	Lead	1311	0.5	0.08	C	5
342	58-89-9	Hexachlorocyclohexane (Lindane)	1311	0.0005	0.0005	C	0.4
042	7439-97-6	Mercury	1311	0.0002	0.0002	C	0.2
344	72-43-5	Methoxychlor	1311	0.001	0.001	C	10
---	78-93-3	Methyl Ethyl Ketone (MEK)	1311	0.05	0.05	C	200
294	98-95-3	Nitrobenzene	1311	0.05	0.05	C	2
210	87-86-5	Pentachlorophenol	1311	0.25	0.25	C	100
---	110-86-1	Pyridine	1311	0.25	0.25	C	5
152	7782-49-2	Selenium	1311	0.25	0.25	C	1
037	7440-22-4	Silver	1311	0.5	0.5	C	5
220	127-18-4	Tetrachloroethylene	1311	0.05	0.05	C	0.7
349	8001-35-2	Toxaphene	1311	0.02	0.02	C	0.5
602	79-01-6	Trichloroethylene	1311	0.05	0.05	C	0.5
601	95-95-4	2,4,5-Trichlorophenol	1311	0.05	0.05	C	400
602	88-06-2	2,4,6-Trichlorophenol	1311	0.05	0.05	C	2
173	75-01-4	Vinyl chloride	1311	0.05	0.05	C	0.2

* If o-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol concentration is used.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
Attachment B, Page 2 of 4

Facility Name: Virginia Power--Possum Point **VPDES PERMIT NO.: VA0002017**
DATE: **PROJECT: Cameron Run CR07-4**

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification [1] Level (mg/kg)	Reporting [2] Results (mg/kg)	Units	Sample [3] Type
Metals (Part B.1.)							
178	7440-36-0	Antimony	SW6010B-T	0.09	**0.21**	mg/kg	C
457	7440-38-2	Arsenic	SW6010B-T	0.22	**0.53**	mg/kg	C
441	7440-47-3	Chromium	SW6010B-T	0.1	**4.7**	mg/kg	C
231	18540-29-9	Chromium, VI	SW7196	0.17	0.17	mg/kg	C
442	7440-50-8	Copper	SW6010B-T	0.1	**5.1**	mg/kg	C
445	7440-02-0	Nickel	SW6010B-T	0.1	**2.8**	mg/kg	C
---	7440-28-0	Thallium	SW6010B-T	0.30	**0.51**	mg/kg	C
448	7440-66-6	Zinc	SW6010B-T	0.3	**19.4**	mg/kg	C
Pesticides/PCBs (Part B.2.)							
332	309-00-2	Aldrin	SW8081A	0.0016	**0.0018**	mg/kg	C
334	2921-88-2	Chlorpyrifos	SW8141A	0.031	0.031	mg/kg	C
---	72-54-8	4,4'-DDD	SW8081A	0.0016	**0.00038**	mg/kg	C
---	72-55-9	4,4'-DDE	SW8081A	0.0016	**0.00087**	mg/kg	C
335	50-29-3	4,4'-DDT	SW8081A	0.0016	0.0016	mg/kg	C
336	8065-48-3	Demeton	SW8141A	0.031	0.031	mg/kg	C
337	60-57-1	Dieldrin	SW8081A	0.0016	0.0016	mg/kg	C
746	959-98-8	Endosulfan I	SW8081A	0.0016	0.0016	mg/kg	C
640	33213-65-9	Endosulfan II	SW8081A	0.0016	0.0016	mg/kg	C
617	1031-07-8	Endosulfan sulfate	SW8081A	0.0016	0.0016	mg/kg	C
---	7421-93-4	Endrin aldehyde	SW8081A	0.0016	0.0016	mg/kg	C
340	86-50-0	Azinphos methyl	SW8141A	0.031	0.031	mg/kg	C
---	1024-57-3	Heptachlor epoxide	SW8081A	0.0016	0.0016	mg/kg	C
---	319-84-6	Alpha-BHC	SW8081A	0.0016	0.0016	mg/kg	C
---	319-85-7	Beta-BHC	SW8081A	0.0016	0.0016	mg/kg	C
---	143-50-0	Kepone	SW8270C	1.2	1.2	mg/kg	C
343	121-75-5	Malathion	SW8141A	0.031	0.031	mg/kg	C
345	2385-85-5	Mirex	SW8081A	0.0016	0.0016	mg/kg	C
346	56-38-2	Methyl parathion	SW8141A	0.031	0.031	mg/kg	C
---	1336-36-3	Total PCB	---	---	---	---	---
641	53469-21-9	Aroclor 1242	SW8082	0.016	0.016	mg/kg	C
642	11097-69-1	Aroclor 1254	SW8082	0.016	0.016	mg/kg	C
643	11104-28-2	Aroclor 1221	SW8082	0.016	0.016	mg/kg	C
644	11141-16-5	Aroclor 1232	SW8082	0.016	0.016	mg/kg	C
645	12672-29-6	Aroclor 1248	SW8082	0.016	**0.018**	mg/kg	C
618	11096-82-5	Aroclor 1260	SW8082	0.016	0.016	mg/kg	C
646	12674-11-2	Aroclor 1016	SW8082	0.016	0.016	mg/kg	C
Base Neutral Extractable (Part B.3.)							
273	83-32-9	Acenaphthene	SW8310	0.16	0.16	mg/kg	C
275	120-12-7	Anthracene	SW8310	0.032	**0.042**	mg/kg	C
---	92-87-5	Benzidine	SW8270C	6.2	6.2	mg/kg	C
276	56-55-3	Benzo(a)anthracene	SW8310	0.03	**0.2**	mg/kg	C

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Facility Name: Virginia Power--Possum Point **VPDES PERMIT NO.: VA0002017**
DATE: **PROJECT: Cameron Run CR07-4**

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification [1] Level (mg/kg)	Reporting [2] Results (mg/kg)	Units	Sample [3] Type
648	205-99-2	Benzo(b)fluoranthene	SW8310	0.03	**0.24**	mg/kg	C
278	207-08-9	Benzo(k)fluoranthene	SW8310	0.03	**0.12**	mg/kg	C
277	50-32-8	Benzo(a)pyrene	SW8310	0.03	**0.2**	mg/kg	C
---	111-44-4	Bis(2-Chloroethyl) Ether	SW8270C	0.063	0.063	mg/kg	C
486	85-68-7	Butyl benzyl phthalate	SW8270C	0.31	0.31	mg/kg	C
---	91-58-7	2-Chloronaphthalene	SW8270C	0.063	0.063	mg/kg	C
282	218-01-9	Chrysene	SW8310	0.03	**0.21**	mg/kg	C
654	53-70-3	Dibenzo(a,h)anthracene	SW8310	0.032	0.032	mg/kg	C
206	84-74-2	Di-n-butyl phthalate	SW8270C	0.31	0.31	mg/kg	C
259	95-50-1	1,2-Dichlorobenzene	SW8270C	0.063	0.063	mg/kg	C
264	541-73-1	1,3-Dichlorobenzene	SW8270C	0.063	0.063	mg/kg	C
527	91-94-1	3,3'-Dichlorobenzidine	SW8270C	0.31	0.31	mg/kg	C
285	84-66-2	Diethyl Phthalate	SW8270C	0.31	0.31	mg/kg	C
170	117-81-7	Bis(2-Ethylhexyl) Phthalate	SW8270C	0.31	**0.099**	mg/kg	C
286	131-11-3	Dimethyl phthalate	SW8270C	0.31	0.31	mg/kg	C
535	122-66-7	1,2-Diphenylhydrazine	SW8270C	0.063	0.063	mg/kg	C
287	206-44-0	Fluoranthene	SW8310	0.03	**0.44**	mg/kg	C
288	86-73-7	Fluorene	SW8310	0.032	**0.017**	mg/kg	C
538	77-47-4	Hexachlorocyclopentadiene	SW8270C	0.31	0.31	mg/kg	C
651	193-39-5	Indeno(1,2,3-cd)pyrene	SW8310	0.03	**0.15**	mg/kg	C
650	78-59-1	Isophorone	SW8270C	0.31	0.31	mg/kg	C
293	91-20-3	Naphthalene	SW8310	0.16	0.16	mg/kg	C
573	62-75-9	N-Nitrosodimethylamine	SW8270C	0.31	0.31	mg/kg	C
574	86-30-6	N-Nitrosodiphenylamine	SW8270C	0.31	0.31	mg/kg	C
575	621-64-7	N-Nitrosodi-N-Propylamine	SW8270C	0.063	0.063	mg/kg	C
296	129-00-0	Pyrene	SW8310	0.03	**0.32**	mg/kg	C
263	120-82-1	1,2,4-Trichlorobenzene	SW8270C	0.31	0.31	mg/kg	C
Volatiles (Part B.4.)							
171	107-02-8	Acrolein	SW8260B	0.14	0.14	mg/kg	C
204	107-13-1	Acrylonitrile	SW8260B	0.14	0.14	mg/kg	C
484	75-25-2	Bromoform	SW8260B	0.0068	0.0068	mg/kg	C
652	124-48-1	Chlorodibromomethane	SW8260B	0.0068	0.0068	mg/kg	C
649	75-09-2	Methylene Chloride	SW8260B	0.0068	**0.0026**	mg/kg	C
244	75-27-4	Dichlorobromomethane	SW8260B	0.0068	0.0068	mg/kg	C
262	156-60-5	Trans-1,2-Dichloroethene	SW8260B	0.0068	0.0068	mg/kg	C
261	78-87-5	1,2-Dichloropropane	SW8260B	0.0068	0.0068	mg/kg	C
265	542-75-6	1,3-Dichloropropene	---	---	---	---	---
172	100-41-4	Ethylbenzene	SW8260B	0.0068	0.0068	mg/kg	C
---	74-83-9	Bromomethane	SW8260B	0.0068	0.0068	mg/kg	C
---	78-93-3	Methyl Ethyl Ketone (MEK)	SW8260B	0.0068	0.0068	mg/kg	C
596	79-34-5	1,1,2,2-Tetrachloroethane	SW8260B	0.0068	0.0068	mg/kg	C

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Facility Name: Virginia Power--Possum Point **VPDES PERMIT NO.: VA0002017**
DATE: **PROJECT: Cameron Run CR07-4**

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification [1] Level (mg/kg)	Reporting [2] Results (mg/kg)	Units	Sample [3] Type
222	108-88-3	Toluene	SW8260B	0.0068	0.0068	mg/kg	C
373	79-00-5	1,1,2-Trichloroethane	SW8260B	0.0068	0.0068	mg/kg	C
155	79-01-6	Trichloroethylene	SW8260B	0.0068	0.0068	mg/kg	C
Acids Extractables (Part B.5.)							
267	95-57-8	2-Chlorophenol	SW8270C	0.31	0.31	mg/kg	C
268	120-83-2	2,4-Dichlorophenol	SW8270C	0.063	0.063	mg/kg	C
269	105-67-9	2,4-Dimethylphenol	SW8270C	0.31	0.31	mg/kg	C
---	534-52-1	2-Methyl-4,6-Dinitrophenol	SW8270C	1.5	1.5	mg/kg	C
270	51-28-5	2,4-Dinitrophenol	SW8270C	1.6	1.6	mg/kg	C
175	108-95-2	Phenol	SW8270C	0.063	0.063	mg/kg	C
Miscellaneous (Part B.6.)							
018	57-12-5	Cyanide, Total	SW9012A	0.68	**0.16**	mg/kg	C
306	---	Dioxin	---	---	---	---	---
350	1461-22-9	Tributyltin	STL	0.0018	0.0018	mg/kg	C
257	---	Total Petroleum Hydrocarbons (TPH)	SW9035	226	226	mg/kg	C

I certify under penalty of law that this documenta and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the pweson or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. P1001 and 33 U.S.C. P 1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent | Title

Signature of Principal Executive Officer or Authorized Agent | Date

Footnotes to Water Quality Monitoring Attachment B

[1] Quantification Level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method. In this case it is the Reporting Limit (RL).

[2] Results for chemicals that were detected are in bold and shaded.

[3] Sample Type: C = core sample

Any Approved method presented in 40 CFR Part 136

The QL is at the discretion of the permittee. For any substance addressed in 40CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Par 136.

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Dredge Spoils Monitoring
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Facility Name: Virginia Power--Possum Point **VPDES PERMIT NO.: VA0002017**
DATE: **PROJECT: Cameron Run CR07-5**

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification [1] Level (mg/l)	Reporting [2] Results (mg/l)	Sample [3] Type	Threshold Levels (mg/l)
Toxicity Characteristic Leaching Procedure Parameters with Threshold Levels (Part A)							
033	7440-38-2	Arsenic	1311	0.5	**0.2**	C	5
151	7440-39-3	Barium	1311	10	**0.22**	C	100
216	71-43-2	Benzene	1311	0.05	0.05	C	3
096	7440-43-9	Cadmium	1311	0.1	0.1	C	1
236	56-23-5	Carbon tetrachloride	1311	0.05	0.05	C	0.5
333	57-74-9	Chlordane	1311	0.005	0.005	C	0.03
280	108-90-7	Chlorobenzene	1311	0.05	0.05	C	100
223	67-66-3	Chloroform	1311	0.05	0.05	C	6
016	7440-47-3	Chromium	1311	0.5	**0.0074**	C	5
510	95-48-7	o-Cresol*	---	---	---	---	200
509	108-39-4	m-Cresol*	---	---	---	---	200
511	106-44-5	p-Cresol*	---	---	---	---	200
512	---	Cresols, Total	1311	0.05	0.05	C	200
266	106-46-7	1,4-Dichlorobenzene	1311	0.05	0.05	C	7.5
260	107-06-2	1,2-Dichloroethane	1311	0.05	0.05	C	0.5
258	75-35-4	1,1-Dichloroethylene	1311	0.05	0.05	C	0.7
239	121-14-2	2,4-Dinitrotoluene	1311	0.05	0.05	C	0.13
339	72-20-8	Endrin	1311	0.0005	0.0005	C	0.02
341	76-44-8	Heptachlor	1311	0.0005	0.0005	C	0.008
289	118-74-1	Hexachlorobenzene	1311	0.05	0.05	C	0.13
290	87-68-3	Hexachlorobutadiene	1311	0.05	0.05	C	0.5
291	67-72-1	Hexachloroethane	1311	0.05	0.05	C	5
034	7439-92-1	Lead	1311	0.5	**0.074**	C	5
342	58-89-9	Hexachlorocyclohexane (Lindane)	1311	0.0005	0.0005	C	0.4
042	7439-97-6	Mercury	1311	0.0002	0.0002	C	0.2
344	72-43-5	Methoxychlor	1311	0.001	0.001	C	10
---	78-93-3	Methyl Ethyl Ketone (MEK)	1311	0.05	0.05	C	200
294	98-95-3	Nitrobenzene	1311	0.05	0.05	C	2
210	87-86-5	Pentachlorophenol	1311	0.25	0.25	C	100
---	110-86-1	Pyridine	1311	0.25	0.25	C	5
152	7782-49-2	Selenium	1311	0.25	0.25	C	1
037	7440-22-4	Silver	1311	0.5	0.5	C	5
220	127-18-4	Tetrachloroethylene	1311	0.05	0.05	C	0.7
349	8001-35-2	Toxaphene	1311	0.02	0.02	C	0.5
602	79-01-6	Trichloroethylene	1311	0.05	0.05	C	0.5
601	95-95-4	2,4,5-Trichlorophenol	1311	0.05	0.05	C	400
602	88-06-2	2,4,6-Trichlorophenol	1311	0.05	0.05	C	2
173	75-01-4	Vinyl chloride	1311	0.05	0.05	C	0.2

* If o-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol concentration is used.

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Facility Name: Virginia Power--Possum Point **VPDES PERMIT NO.: VA0002017**
DATE: **PROJECT: Cameron Run CR07-5**

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification [1] Level (mg/kg)	Reporting [2] Results (mg/kg)	Units	Sample [3] Type
Metals (Part B.1.)							
178	7440-36-0	Antimony	SW6010B-T	0.09	**0.21**	mg/kg	C
457	7440-38-2	Arsenic	SW6010B-T	0.2	**1.2**	mg/kg	C
441	7440-47-3	Chromium	SW6010B-T	0.1	**9.8**	mg/kg	C
231	18540-29-9	Chromium, VI	SW7196	0.2	0.16	mg/kg	C
442	7440-50-8	Copper	SW6010B-T	0.1	**11.7**	mg/kg	C
445	7440-02-0	Nickel	SW6010B-T	0.1	**4.1**	mg/kg	C
---	7440-28-0	Thallium	SW6010B-T	0.3	**0.5**	mg/kg	C
448	7440-66-6	Zinc	SW6010B-T	0.3	**29.1**	mg/kg	C
Pesticides/PCBs (Part B.2.)							
332	309-00-2	Aldrin	SW8081A	0.0016	**0.0011**	mg/kg	C
334	2921-88-2	Chlorpyrifos	SW8141A	0.032	0.032	mg/kg	C
---	72-54-8	4,4'-DDD	SW8081A	0.0016	**0.0019**	mg/kg	C
---	72-55-9	4,4'-DDE	SW8081A	0.0016	**0.0013**	mg/kg	C
335	50-29-3	4,4'-DDT	SW8081A	0.0016	0.0016	mg/kg	C
336	8065-48-3	Demeton	SW8141A	0.03	0.032	mg/kg	C
337	60-57-1	Dieldrin	SW8081A	0.0016	**0.00018**	mg/kg	C
746	959-98-8	Endosulfan I	SW8081A	0.0016	0.0016	mg/kg	C
640	33213-65-9	Endosulfan II	SW8081A	0.0016	**0.00044**	mg/kg	C
617	1031-07-8	Endosulfan sulfate	SW8081A	0.0016	**0.00076**	mg/kg	C
---	7421-93-4	Endrin aldehyde	SW8081A	0.0016	0.0016	mg/kg	C
340	86-50-0	Azinphos methyl	SW8141A	0.032	0.032	mg/kg	C
---	1024-57-3	Heptachlor epoxide	SW8081A	0.0016	0.0016	mg/kg	C
---	319-84-6	Alpha-BHC	SW8081A	0.0016	0.0016	mg/kg	C
---	319-85-7	Beta-BHC	SW8081A	0.0016	0.0016	mg/kg	C
---	143-50-0	Kepone	SW8270C	1.3	1.3	mg/kg	C
343	121-75-5	Malathion	SW8141A	0.032	0.032	mg/kg	C
345	2385-85-5	Mirex	SW8081A	0.0016	0.0016	mg/kg	C
346	56-38-2	Methyl parathion	SW8141A	0.032	0.032	mg/kg	C
---	1336-36-3	Total PCB	---	---	---	---	---
641	53469-21-9	Aroclor 1242	SW8082	0.016	0.016	mg/kg	C
642	11097-69-1	Aroclor 1254	SW8082	0.016	0.016	mg/kg	C
643	11104-28-2	Aroclor 1221	SW8082	0.016	0.016	mg/kg	C
644	11141-16-5	Aroclor 1232	SW8082	0.016	0.016	mg/kg	C
645	12672-29-6	Aroclor 1248	SW8082	0.016	**0.026**	mg/kg	C
618	11096-82-5	Aroclor 1260	SW8082	0.016	0.016	mg/kg	C
646	12674-11-2	Aroclor 1016	SW8082	0.016	**0.026**	mg/kg	C
Base Neutral Extractable (Part B.3.)							
273	83-32-9	Acenaphthene	SW8310	0.16	0.16	mg/kg	C
275	120-12-7	Anthracene	SW8310	0.032	**0.067**	mg/kg	C
---	92-87-5	Benzidine	SW8270C	6.4	6.4	mg/kg	C
276	56-55-3	Benzo(a)anthracene	SW8310	0.03	**0.16**	mg/kg	C

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Facility Name: Virginia Power--Possum Point **VPDES PERMIT NO.: VA0002017**
DATE: **PROJECT: Cameron Run CR07-5**

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification [1] Level (mg/kg)	Reporting [2] Results (mg/kg)	Units	Sample [3] Type
648	205-99-2	Benzo(b)fluoranthene	SW8310	0.03	**0.18**	mg/kg	C
278	207-08-9	Benzo(k)fluoranthene	SW8310	0.032	**0.087**	mg/kg	C
277	50-32-8	Benzo(a)pyrene	SW8310	0.03	**0.14**	mg/kg	C
---	111-44-4	Bis(2-Chloroethyl) Ether	SW8270C	0.064	0.064	mg/kg	C
486	85-68-7	Butyl benzyl phthalate	SW8270C	0.32	0.32	mg/kg	C
---	91-58-7	2-Chloronaphthalene	SW8270C	0.064	0.064	mg/kg	C
282	218-01-9	Chrysene	SW8310	0.03	**0.15**	mg/kg	C
654	53-70-3	Dibenzo(a,h)anthracene	SW8310	0.032	0.032	mg/kg	C
206	84-74-2	Di-n-butyl phthalate	SW8270C	0.32	0.32	mg/kg	C
259	95-50-1	1,2-Dichlorobenzene	SW8270C	0.064	0.064	mg/kg	C
264	541-73-1	1,3-Dichlorobenzene	SW8270C	0.064	0.064	mg/kg	C
527	91-94-1	3,3'-Dichlorobenzidine	SW8270C	0.32	0.32	mg/kg	C
285	84-66-2	Diethyl Phthalate	SW8270C	0.32	0.32	mg/kg	C
170	117-81-7	Bis(2-Ethylhexyl) Phthalate	SW8270C	0.32	**0.09**	mg/kg	C
286	131-11-3	Dimethyl phthalate	SW8270C	0.32	0.32	mg/kg	C
535	122-66-7	1,2-Diphenylhydrazine	SW8270C	0.064	0.064	mg/kg	C
287	206-44-0	Fluoranthene	SW8310	0.032	**0.37**	mg/kg	C
288	86-73-7	Fluorene	SW8310	0.032	**0.017**	mg/kg	C
538	77-47-4	Hexachlorocyclopentadiene	SW8270C	0.32	0.32	mg/kg	C
651	193-39-5	Indeno(1,2,3-cd)pyrene	SW8310	0.03	**0.17**	mg/kg	C
650	78-59-1	Isophorone	SW8270C	0.32	0.32	mg/kg	C
293	91-20-3	Naphthalene	SW8310	0.16	0.16	mg/kg	C
573	62-75-9	N-Nitrosodimethylamine	SW8270C	0.32	0.32	mg/kg	C
574	86-30-6	N-Nitrosodiphenylamine	SW8270C	0.32	0.32	mg/kg	C
575	621-64-7	N-Nitrosodi-N-Propylamine	SW8270C	0.064	0.064	mg/kg	C
296	129-00-0	Pyrene	SW8310	0.03	**0.27**	mg/kg	C
263	120-82-1	1,2,4-Trichlorobenzene	SW8270C	0.32	0.32	mg/kg	C
Volatiles (Part B.4.)							
171	107-02-8	Acrolein	SW8260B	0.13	0.13	mg/kg	C
204	107-13-1	Acrylonitrile	SW8260B	0.13	0.13	mg/kg	C
484	75-25-2	Bromoform	SW8260B	0.0064	0.0064	mg/kg	C
652	124-48-1	Chlorodibromomethane	SW8260B	0.0064	0.0064	mg/kg	C
649	75-09-2	Methylene Chloride	SW8260B	0.0064	**0.002**	mg/kg	C
244	75-27-4	Dichlorobromomethane	SW8260B	0.0064	0.0064	mg/kg	C
262	156-60-5	Trans-1,2-Dichloroethene	SW8260B	0.0064	0.0064	mg/kg	C
261	78-87-5	1,2-Dichloropropane	SW8260B	0.0064	0.0064	mg/kg	C
265	542-75-6	1,3-Dichloropropene	---	---	---	---	---
172	100-41-4	Ethylbenzene	SW8260B	0.0064	0.0064	mg/kg	C
---	74-83-9	Bromomethane	SW8260B	0.0064	0.0064	mg/kg	C
---	78-93-3	Methyl Ethyl Ketone (MEK)	SW8260B	0.0064	0.0064	mg/kg	C
596	79-34-5	1,1,2,2-Tetrachloroethane	SW8260B	0.0064	0.0064	mg/kg	C

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Facility Name: Virginia Power--Possum Point **VPDES PERMIT NO.: VA0002017**
DATE: **PROJECT: Cameron Run CR07-5**

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification [1] Level (mg/kg)	Reporting [2] Results (mg/kg)	Units	Sample [3] Type
222	108-88-3	Toluene	SW8260B	0.0064	0.0064	mg/kg	C
373	79-00-5	1,1,2-Trichloroethane	SW8260B	0.0064	0.0064	mg/kg	C
155	79-01-6	Trichloroethylene	SW8260B	0.0064	0.0064	mg/kg	C
Acids Extractables (Part B.5.)							
267	95-57-8	2-Chlorophenol	SW8270C	0.32	0.32	mg/kg	C
268	120-83-2	2,4-Dichlorophenol	SW8270C	0.064	0.064	mg/kg	C
269	105-67-9	2,4-Dimethylphenol	SW8270C	0.32	0.32	mg/kg	C
---	534-52-1	2-Methyl-4,6-Dinitrophenol	SW8270C	1.5	1.5	mg/kg	C
270	51-28-5	2,4-Dinitrophenol	SW8270C	1.6	1.6	mg/kg	C
175	108-95-2	Phenol	SW8270C	0.064	0.064	mg/kg	C
Miscellaneous (Part B.6.)							
018	57-12-5	Cyanide, Total	SW9012A	0.64	**0.12**	mg/kg	C
306	---	Dioxin	---	---	---	---	---
350	1461-22-9	Tributyltin	STL	0.0019	0.0019	mg/kg	C
257	---	Total Petroleum Hydrocarbons (TPH)	SW9035	214	214	mg/kg	C

I certify under penalty of law that this documenta and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the pweson or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. P1001 and 33 U.S.C. P 1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent — Title

Signature of Principal Executive Officer or Authorized Agent — Date

Footnotes to Water Quality Monitoring Attachment B

[1] Quantification Level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method. In this case it is the Reporting Limit (RL).

[2] Results for chemicals that were detected are in bold and shaded.

[3] Sample Type: C = core sample

Any Approved method presented in 40 CFR Part 136

The QL is at the discretion of the permittee. For any substance addressed in 40CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Par 136.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
Attachment B, Page 1 of 4

Facility Name: Virginia Power--Possum Point **VPDES PERMIT NO.: VA0002017**
DATE: **PROJECT: Cameron Run - CR07-6/7**

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification [1] Level (mg/l)	Reporting [2] Results (mg/l)	Sample [3] Type	Threshold Levels (mg/l)
Toxicity Characteristic Leaching Procedure Parameters with Threshold Levels (Part A)							
033	7440-38-2	Arsenic	1311	0.5	**0.19**	C	5
151	7440-39-3	Barium	1311	10	**0.22**	C	100
216	71-43-2	Benzene	1311	0.05	0.05	C	3
096	7440-43-9	Cadmium	1311	0.1	0.1	C	1
236	56-23-5	Carbon tetrachloride	1311	0.05	0.05	C	0.5
333	57-74-9	Chlordane	1311	0.005	0.005	C	0.03
280	108-90-7	Chlorobenzene	1311	0.05	0.05	C	100
223	67-66-3	Chloroform	1311	0.05	0.05	C	6
016	7440-47-3	Chromium	1311	0.5	0.5	C	5
510	95-48-7	o-Cresol*	---	---	---	---	200
509	108-39-4	m-Cresol*	---	---	---	---	200
511	106-44-5	p-Cresol*	---	---	---	---	200
512	---	Cresols, Total	1311	0.05	0.05	C	200
266	106-46-7	1,4-Dichlorobenzene	1311	0.05	0.05	C	7.5
260	107-06-2	1,2-Dichloroethane	1311	0.05	0.05	C	0.5
258	75-35-4	1,1-Dichloroethylene	1311	0.05	0.05	C	0.7
239	121-14-2	2,4-Dinitrotoluene	1311	0.05	0.05	C	0.13
339	72-20-8	Endrin	1311	0.0005	0.0005	C	0.02
341	76-44-8	Heptachlor	1311	0.0005	0.0005	C	0.008
289	118-74-1	Hexachlorobenzene	1311	0.05	0.05	C	0.13
290	87-68-3	Hexachlorobutadiene	1311	0.05	0.05	C	0.5
291	67-72-1	Hexachloroethane	1311	0.05	0.05	C	5
034	7439-92-1	Lead	1311	0.5	**0.038**	C	5
342	58-89-9	Hexachlorocyclohexane (Lindane)	1311	0.0005	0.0005	C	0.4
042	7439-97-6	Mercury	1311	0.0002	0.0002	C	0.2
344	72-43-5	Methoxychlor	1311	0.001	0.001	C	10
---	78-93-3	Methyl Ethyl Ketone (MEK)	1311	0.05	0.05	C	200
294	98-95-3	Nitrobenzene	1311	0.05	0.05	C	2
210	87-86-5	Pentachlorophenol	1311	0.25	0.25	C	100
---	110-86-1	Pyridine	1311	0.25	0.25	C	5
152	7782-49-2	Selenium	1311	0.25	0.25	C	1
037	7440-22-4	Silver	1311	0.5	0.5	C	5
220	127-18-4	Tetrachloroethylene	1311	0.05	0.05	C	0.7
349	8001-35-2	Toxaphene	1311	0.02	0.02	C	0.5
602	79-01-6	Trichloroethylene	1311	0.05	0.05	C	0.5
601	95-95-4	2,4,5-Trichlorophenol	1311	0.05	0.05	C	400
602	88-06-2	2,4,6-Trichlorophenol	1311	0.05	0.05	C	2
173	75-01-4	Vinyl chloride	1311	0.05	0.05	C	0.2

* If o-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol concentration is used.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
Attachment B, Page 2 of 4

Facility Name: Virginia Power--Possum Point **VPDES PERMIT NO.: VA0002017**
DATE: **PROJECT: Cameron Run - CR07-6/7**

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification [1] Level (mg/kg)	Reporting [2] Results (mg/kg)	Units	Sample [3] Type
Metals (Part B.1.)							
178	7440-36-0	Antimony	SW6010B-T	0.09	**0.15**	mg/kg	C
457	7440-38-2	Arsenic	SW6010B-T	0.23	**0.78**	mg/kg	C
441	7440-47-3	Chromium	SW6010B-T	0.1	**7.2**	mg/kg	C
231	18540-29-9	Chromium, VI	SW7196	0.17	0.17	mg/kg	C
442	7440-50-8	Copper	SW6010B-T	0.1	**8.9**	mg/kg	C
445	7440-02-0	Nickel	SW6010B-T	0.1	**4.4**	mg/kg	C
---	7440-28-0	Thallium	SW6010B-T	0.32	**0.36**	mg/kg	C
448	7440-66-6	Zinc	SW6010B-T	0.4	**31.3**	mg/kg	C
Pesticides/PCBs (Part B.2.)							
332	309-00-2	Aldrin	SW8081A	0.0017	**0.00094**	mg/kg	C
334	2921-88-2	Chlorpyrifos	SW8141A	0.033	0.033	mg/kg	C
---	72-54-8	4,4'-DDD	SW8081A	0.0017	**0.00053**	mg/kg	C
---	72-55-9	4,4'-DDE	SW8081A	0.0017	**0.00021**	mg/kg	C
335	50-29-3	4,4'-DDT	SW8081A	0.0017	0.0017	mg/kg	C
336	8065-48-3	Demeton	SW8141A	0.033	0.033	mg/kg	C
337	60-57-1	Dieldrin	SW8081A	0.0017	0.0017	mg/kg	C
746	959-98-8	Endosulfan I	SW8081A	0.0017	0.0017	mg/kg	C
640	33213-65-9	Endosulfan II	SW8081A	0.0017	**0.00043**	mg/kg	C
617	1031-07-8	Endosulfan sulfate	SW8081A	0.0017	0.0017	mg/kg	C
---	7421-93-4	Endrin aldehyde	SW8081A	0.0017	0.0017	mg/kg	C
340	86-50-0	Azinphos methyl	SW8141A	0.033	0.033	mg/kg	C
---	1024-57-3	Heptachlor epoxide	SW8081A	0.0017	0.0017	mg/kg	C
---	319-84-6	Alpha-BHC	SW8081A	0.0017	0.0017	mg/kg	C
---	319-85-7	Beta-BHC	SW8081A	0.0017	0.0017	mg/kg	C
---	143-50-0	Kepone	SW8270C	1.3	1.3	mg/kg	C
343	121-75-5	Malathion	SW8141A	0.033	0.033	mg/kg	C
345	2385-85-5	Mirex	SW8081A	0.0017	0.0017	mg/kg	C
346	56-38-2	Methyl parathion	SW8141A	0.033	0.033	mg/kg	C
---	1336-36-3	Total PCB	---	---	---	---	---
641	53469-21-9	Aroclor 1242	SW8082	0.017	0.017	mg/kg	C
642	11097-69-1	Aroclor 1254	SW8082	0.017	0.017	mg/kg	C
643	11104-28-2	Aroclor 1221	SW8082	0.017	0.017	mg/kg	C
644	11141-16-5	Aroclor 1232	SW8082	0.017	0.017	mg/kg	C
645	12672-29-6	Aroclor 1248	SW8082	0.017	0.017	mg/kg	C
618	11096-82-5	Aroclor 1260	SW8082	0.017	0.017	mg/kg	C
646	12674-11-2	Aroclor 1016	SW8082	0.017	0.017	mg/kg	C
Base Neutral Extractable (Part B.3.)							
273	83-32-9	Acenaphthene	SW8310	0.033	0.033	mg/kg	C
275	120-12-7	Anthracene	SW8310	0.0067	**0.0035**	mg/kg	C
---	92-87-5	Benzidine	SW8270C	6.7	6.7	mg/kg	C
276	56-55-3	Benzo(a)anthracene	SW8310	0.007	**0.019**	mg/kg	C

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
Attachment B, Page 3 of 4

Facility Name: Virginia Power--Possum Point **VPDES PERMIT NO.: VA0002017**
DATE: **PROJECT: Cameron Run - CR07-6/7**

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification [1] Level (mg/kg)	Reporting [2] Results (mg/kg)	Units	Sample [3] Type
648	205-99-2	Benzo(b)fluoranthene	SW8310	0.007	**0.032**	mg/kg	C
278	207-08-9	Benzo(k)fluoranthene	SW8310	0.007	**0.013**	mg/kg	C
277	50-32-8	Benzo(a)pyrene	SW8310	0.007	**0.027**	mg/kg	C
---	111-44-4	Bis(2-Chloroethyl) Ether	SW8270C	0.067	0.067	mg/kg	C
486	85-68-7	Butyl benzyl phthalate	SW8270C	0.33	0.33	mg/kg	C
---	91-58-7	2-Chloronaphthalene	SW8270C	0.067	0.067	mg/kg	C
282	218-01-9	Chrysene	SW8310	0.007	**0.024**	mg/kg	C
654	53-70-3	Dibenzo(a,h)anthracene	SW8310	0.0067	0.0067	mg/kg	C
206	84-74-2	Di-n-butyl phthalate	SW8270C	0.33	0.33	mg/kg	C
259	95-50-1	1,2-Dichlorobenzene	SW8270C	0.067	0.067	mg/kg	C
264	541-73-1	1,3-Dichlorobenzene	SW8270C	0.067	0.067	mg/kg	C
527	91-94-1	3,3'-Dichlorobenzidine	SW8270C	0.33	0.33	mg/kg	C
285	84-66-2	Diethyl Phthalate	SW8270C	0.33	0.33	mg/kg	C
170	117-81-7	Bis(2-Ethylhexyl) Phthalate	SW8270C	0.33	**0.11**	mg/kg	C
286	131-11-3	Dimethyl phthalate	SW8270C	0.33	0.33	mg/kg	C
535	122-66-7	1,2-Diphenylhydrazine	SW8270C	0.067	0.067	mg/kg	C
287	206-44-0	Fluoranthene	SW8310	0.007	**0.044**	mg/kg	C
288	86-73-7	Fluorene	SW8310	0.0067	**0.00098**	mg/kg	C
538	77-47-4	Hexachlorocyclopentadiene	SW8270C	0.33	0.33	mg/kg	C
651	193-39-5	Indeno(1,2,3-cd)pyrene	SW8310	0.007	**0.029**	mg/kg	C
650	78-59-1	Isophorone	SW8270C	0.33	0.33	mg/kg	C
293	91-20-3	Naphthalene	SW8310	0.033	0.033	mg/kg	C
573	62-75-9	N-Nitrosodimethylamine	SW8270C	0.33	0.33	mg/kg	C
574	86-30-6	N-Nitrosodiphenylamine	SW8270C	0.33	0.33	mg/kg	C
575	621-64-7	N-Nitrosodi-N-Propylamine	SW8270C	0.067	0.067	mg/kg	C
296	129-00-0	Pyrene	SW8310	0.007	**0.042**	mg/kg	C
263	120-82-1	1,2,4-Trichlorobenzene	SW8270C	0.33	0.33	mg/kg	C
Volatiles (Part B.4.)							
171	107-02-8	Acrolein	SW8260B	0.13	0.13	mg/kg	C
204	107-13-1	Acrylonitrile	SW8260B	0.13	0.13	mg/kg	C
484	75-25-2	Bromoform	SW8260B	0.0067	0.0067	mg/kg	C
652	124-48-1	Chlorodibromomethane	SW8260B	0.0067	0.0067	mg/kg	C
649	75-09-2	Methylene Chloride	SW8260B	0.0067	**0.0021**	mg/kg	C
244	75-27-4	Dichlorobromomethane	SW8260B	0.0067	0.0067	mg/kg	C
262	156-60-5	Trans-1,2-Dichloroethene	SW8260B	0.0067	0.0067	mg/kg	C
261	78-87-5	1,2-Dichloropropane	SW8260B	0.0067	0.0067	mg/kg	C
265	542-75-6	1,3-Dichloropropene	---	---	---	---	---
172	100-41-4	Ethylbenzene	SW8260B	0.0067	0.0067	mg/kg	C
---	74-83-9	Bromomethane	SW8260B	0.0067	0.0067	mg/kg	C
---	78-93-3	Methyl Ethyl Ketone (MEK)	SW8260B	0.0067	0.0067	mg/kg	C
596	79-34-5	1,1,2,2-Tetrachloroethane	SW8260B	0.0067	0.0067	mg/kg	C

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
Attachment B, Page 4 of 4

Facility Name: Virginia Power--Possum Point **VPDES PERMIT NO.: VA0002017**
DATE: **PROJECT: Cameron Run - CR07-6/7**

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification [1] Level (mg/kg)	Reporting [2] Results (mg/kg)	Units	Sample [3] Type
222	108-88-3	Toluene	SW8260B	0.0067	0.0067	mg/kg	C
373	79-00-5	1,1,2-Trichloroethane	SW8260B	0.0067	0.0067	mg/kg	C
155	79-01-6	Trichloroethylene	SW8260B	0.0067	0.0067	mg/kg	C
Acids Extractables (Part B.5.)							
267	95-57-8	2-Chlorophenol	SW8270C	0.33	0.33	mg/kg	C
268	120-83-2	2,4-Dichlorophenol	SW8270C	0.067	0.067	mg/kg	C
269	105-67-9	2,4-Dimethylphenol	SW8270C	0.33	0.33	mg/kg	C
---	534-52-1	2-Methyl-4,6-Dinitrophenol	SW8270C	1.6	1.6	mg/kg	C
270	51-28-5	2,4-Dinitrophenol	SW8270C	1.7	1.7	mg/kg	C
175	108-95-2	Phenol	SW8270C	0.067	0.067	mg/kg	C
Miscellaneous (Part B.6.)							
018	57-12-5	Cyanide, Total	SW9012A	0.67	0.67	mg/kg	C
306	---	Dioxin	---	---	---	---	---
350	1461-22-9	Tributyltin	STL	0.002	0.002	mg/kg	C
257	---	Total Petroleum Hydrocarbons (TPH)	SW9035	223	223	mg/kg	C

I certify under penalty of law that this documenta and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the pweson or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. P1001 and 33 U.S.C. P 1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent | Title

Signature of Principal Executive Officer or Authorized Agent | Date

Footnotes to Water Quality Monitoring Attachment B

[1] Quantification Level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method. In this case it is the Reporting Limit (RL).

[2] Results for chemicals that were detected are in bold and shaded.

[3] Sample Type: C = core sample

Any Approved method presented in 40 CFR Part 136

The QL is at the discretion of the permittee. For any substance addressed in 40CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Par 136.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
Attachment B, Page 1 of 4

Facility Name: Virginia Power--Possum Point **VPDES PERMIT NO.: VA0002017**
DATE: **PROJECT: Cameron Run CR07-8**

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification [1] Level (mg/l)	Reporting [2] Results (mg/l)	Sample [3] Type	Threshold Levels (mg/l)
Toxicity Characteristic Leaching Procedure Parameters with Threshold Levels (Part A)							
033	7440-38-2	Arsenic	1311	0.5	**0.17**	C	5
151	7440-39-3	Barium	1311	10	**0.14**	C	100
216	71-43-2	Benzene	1311	0.05	0.05	C	3
096	7440-43-9	Cadmium	1311	0.1	0.1	C	1
236	56-23-5	Carbon tetrachloride	1311	0.05	0.05	C	0.5
333	57-74-9	Chlordane	1311	0.005	0.005	C	0.03
280	108-90-7	Chlorobenzene	1311	0.05	0.05	C	100
223	67-66-3	Chloroform	1311	0.05	0.05	C	6
016	7440-47-3	Chromium	1311	0.5	**0.0032**	C	5
510	95-48-7	o-Cresol*	---	---	---	---	200
509	108-39-4	m-Cresol*	---	---	---	---	200
511	106-44-5	p-Cresol*	---	---	---	---	200
512	---	Cresols, Total	1311	0.05	0.05	C	200
266	106-46-7	1,4-Dichlorobenzene	1311	0.05	0.05	C	7.5
260	107-06-2	1,2-Dichloroethane	1311	0.05	0.05	C	0.5
258	75-35-4	1,1-Dichloroethylene	1311	0.05	0.05	C	0.7
239	121-14-2	2,4-Dinitrotoluene	1311	0.05	0.05	C	0.13
339	72-20-8	Endrin	1311	0.0005	0.0005	C	0.02
341	76-44-8	Heptachlor	1311	0.0005	0.0005	C	0.008
289	118-74-1	Hexachlorobenzene	1311	0.05	0.05	C	0.13
290	87-68-3	Hexachlorobutadiene	1311	0.05	0.05	C	0.5
291	67-72-1	Hexachloroethane	1311	0.05	0.05	C	5
034	7439-92-1	Lead	1311	0.5	0.5	C	5
342	58-89-9	Hexachlorocyclohexane (Lindane)	1311	0.0005	0.0005	C	0.4
042	7439-97-6	Mercury	1311	0.0002	0.0002	C	0.2
344	72-43-5	Methoxychlor	1311	0.001	0.001	C	10
---	78-93-3	Methyl Ethyl Ketone (MEK)	1311	0.05	0.05	C	200
294	98-95-3	Nitrobenzene	1311	0.05	0.05	C	2
210	87-86-5	Pentachlorophenol	1311	0.25	0.25	C	100
---	110-86-1	Pyridine	1311	0.25	0.25	C	5
152	7782-49-2	Selenium	1311	0.25	0.25	C	1
037	7440-22-4	Silver	1311	0.5	0.5	C	5
220	127-18-4	Tetrachloroethylene	1311	0.05	0.05	C	0.7
349	8001-35-2	Toxaphene	1311	0.02	0.02	C	0.5
602	79-01-6	Trichloroethylene	1311	0.05	0.05	C	0.5
601	95-95-4	2,4,5-Trichlorophenol	1311	0.05	0.05	C	400
602	88-06-2	2,4,6-Trichlorophenol	1311	0.05	0.05	C	2
173	75-01-4	Vinyl chloride	1311	0.05	0.05	C	0.2

* If o-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol concentration is used.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
Attachment B, Page 2 of 4

Facility Name: Virginia Power--Possum Point **VPDES PERMIT NO.: VA0002017**
DATE: **PROJECT: Cameron Run CR07-8**

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification [1] Level (mg/kg)	Reporting [2] Results (mg/kg)	Units	Sample [3] Type
Metals (Part B.1.)							
178	7440-36-0	Antimony	SW6010B-T	0.09	**0.19**	mg/kg	C
457	7440-38-2	Arsenic	SW6010B-T	0.2	**0.3**	mg/kg	C
441	7440-47-3	Chromium	SW6010B-T	0.081	**4.4**	mg/kg	C
231	18540-29-9	Chromium, VI	SW7196	0.16	0.16	mg/kg	C
442	7440-50-8	Copper	SW6010B-T	0.1	**2.5**	mg/kg	C
445	7440-02-0	Nickel	SW6010B-T	0.1	**1.8**	mg/kg	C
---	7440-28-0	Thallium	SW6010B-T	0.32	0.32	mg/kg	C
448	7440-66-6	Zinc	SW6010B-T	0.3	**12.3**	mg/kg	C
Pesticides/PCBs (Part B.2.)							
332	309-00-2	Aldrin	SW8081A	0.0017	**0.0016**	mg/kg	C
334	2921-88-2	Chlorpyrifos	SW8141A	0.033	0.033	mg/kg	C
---	72-54-8	4,4'-DDD	SW8081A	0.0017	0.0017	mg/kg	C
---	72-55-9	4,4'-DDE	SW8081A	0.0017	0.0017	mg/kg	C
335	50-29-3	4,4'-DDT	SW8081A	0.0017	0.0017	mg/kg	C
336	8065-48-3	Demeton	SW8141A	0.033	0.033	mg/kg	C
337	60-57-1	Dieldrin	SW8081A	0.0017	0.0017	mg/kg	C
746	959-98-8	Endosulfan I	SW8081A	0.0017	0.0017	mg/kg	C
640	33213-65-9	Endosulfan II	SW8081A	0.0017	**0.00054**	mg/kg	C
617	1031-07-8	Endosulfan sulfate	SW8081A	0.0017	0.0017	mg/kg	C
---	7421-93-4	Endrin aldehyde	SW8081A	0.0017	0.0017	mg/kg	C
340	86-50-0	Azinphos methyl	SW8141A	0.033	0.033	mg/kg	C
---	1024-57-3	Heptachlor epoxide	SW8081A	0.0017	0.0017	mg/kg	C
---	319-84-6	Alpha-BHC	SW8081A	0.0017	0.0017	mg/kg	C
---	319-85-7	Beta-BHC	SW8081A	0.0017	0.0017	mg/kg	C
---	143-50-0	Kepone	SW8270C	1.3	1.3	mg/kg	C
343	121-75-5	Malathion	SW8141A	0.033	0.033	mg/kg	C
345	2385-85-5	Mirex	SW8081A	0.0017	0.0017	mg/kg	C
346	56-38-2	Methyl parathion	SW8141A	0.033	0.033	mg/kg	C
---	1336-36-3	Total PCB	---	---	---	---	---
641	53469-21-9	Aroclor 1242	SW8082	0.017	0.017	mg/kg	C
642	11097-69-1	Aroclor 1254	SW8082	0.017	0.017	mg/kg	C
643	11104-28-2	Aroclor 1221	SW8082	0.017	0.017	mg/kg	C
644	11141-16-5	Aroclor 1232	SW8082	0.017	0.017	mg/kg	C
645	12672-29-6	Aroclor 1248	SW8082	0.017	0.017	mg/kg	C
618	11096-82-5	Aroclor 1260	SW8082	0.017	0.017	mg/kg	C
646	12674-11-2	Aroclor 1016	SW8082	0.017	0.017	mg/kg	C
Base Neutral Extractable (Part B.3.)							
273	83-32-9	Acenaphthene	SW8310	0.033	0.033	mg/kg	C
275	120-12-7	Anthracene	SW8310	0.0067	**0.0059**	mg/kg	C
---	92-87-5	Benzidine	SW8270C	6.5	6.5	mg/kg	C
276	56-55-3	Benzo(a)anthracene	SW8310	0.007	**0.014**	mg/kg	C

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
Attachment B, Page 3 of 4

Facility Name: Virginia Power--Possum Point **VPDES PERMIT NO.: VA0002017**
DATE: **PROJECT: Cameron Run CR07-8**

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification [1] Level (mg/kg)	Reporting [2] Results (mg/kg)	Units	Sample [3] Type
648	205-99-2	Benzo(b)fluoranthene	SW8310	0.007	**0.026**	mg/kg	C
278	207-08-9	Benzo(k)fluoranthene	SW8310	0.007	**0.014**	mg/kg	C
277	50-32-8	Benzo(a)pyrene	SW8310	0.01	**0.02**	mg/kg	C
---	111-44-4	Bis(2-Chloroethyl) Ether	SW8270C	0.066	0.066	mg/kg	C
486	85-68-7	Butyl benzyl phthalate	SW8270C	0.32	0.32	mg/kg	C
---	91-58-7	2-Chloronaphthalene	SW8270C	0.066	0.066	mg/kg	C
282	218-01-9	Chrysene	SW8310	0.007	**0.021**	mg/kg	C
654	53-70-3	Dibenzo(a,h)anthracene	SW8310	0.0067	0.0067	mg/kg	C
206	84-74-2	Di-n-butyl phthalate	SW8270C	0.32	0.32	mg/kg	C
259	95-50-1	1,2-Dichlorobenzene	SW8270C	0.066	0.066	mg/kg	C
264	541-73-1	1,3-Dichlorobenzene	SW8270C	0.066	0.066	mg/kg	C
527	91-94-1	3,3'-Dichlorobenzidine	SW8270C	0.32	0.32	mg/kg	C
285	84-66-2	Diethyl Phthalate	SW8270C	0.32	0.32	mg/kg	C
170	117-81-7	Bis(2-Ethylhexyl) Phthalate	SW8270C	0.32	0.32	mg/kg	C
286	131-11-3	Dimethyl phthalate	SW8270C	0.32	0.32	mg/kg	C
535	122-66-7	1,2-Diphenylhydrazine	SW8270C	0.066	0.066	mg/kg	C
287	206-44-0	Fluoranthene	SW8310	0.007	**0.042**	mg/kg	C
288	86-73-7	Fluorene	SW8310	0.007	**0.0011**	mg/kg	C
538	77-47-4	Hexachlorocyclopentadiene	SW8270C	0.32	0.32	mg/kg	C
651	193-39-5	Indeno(1,2,3-cd)pyrene	SW8310	0.007	**0.021**	mg/kg	C
650	78-59-1	Isophorone	SW8270C	0.32	0.32	mg/kg	C
293	91-20-3	Naphthalene	SW8310	0.033	0.033	mg/kg	C
573	62-75-9	N-Nitrosodimethylamine	SW8270C	0.32	0.32	mg/kg	C
574	86-30-6	N-Nitrosodiphenylamine	SW8270C	0.32	0.32	mg/kg	C
575	621-64-7	N-Nitrosodi-N-Propylamine	SW8270C	0.066	0.066	mg/kg	C
296	129-00-0	Pyrene	SW8310	0.007	**0.041**	mg/kg	C
263	120-82-1	1,2,4-Trichlorobenzene	SW8270C	0.32	0.32	mg/kg	C
Volatiles (Part B.4.)							
171	107-02-8	Acrolein	SW8260B	0.12	0.12	mg/kg	C
204	107-13-1	Acrylonitrile	SW8260B	0.12	0.12	mg/kg	C
484	75-25-2	Bromoform	SW8260B	0.0062	0.0062	mg/kg	C
652	124-48-1	Chlorodibromomethane	SW8260B	0.0062	0.0062	mg/kg	C
649	75-09-2	Methylene Chloride	SW8260B	0.0062	**0.0017**	mg/kg	C
244	75-27-4	Dichlorobromomethane	SW8260B	0.0062	0.0062	mg/kg	C
262	156-60-5	Trans-1,2-Dichloroethene	SW8260B	0.0062	0.0062	mg/kg	C
261	78-87-5	1,2-Dichloropropane	SW8260B	0.0062	0.0062	mg/kg	C
265	542-75-6	1,3-Dichloropropene	---	---	---	---	---
172	100-41-4	Ethylbenzene	SW8260B	0.0062	0.0062	mg/kg	C
---	74-83-9	Bromomethane	SW8260B	0.0062	0.0062	mg/kg	C
---	78-93-3	Methyl Ethyl Ketone (MEK)	SW8260B	0.0062	0.0062	mg/kg	C
596	79-34-5	1,1,2,2-Tetrachloroethane	SW8260B	0.0062	0.0062	mg/kg	C

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring

Facility Name: Virginia Power--Possum Point **VPDES PERMIT NO.: VA0002017**
DATE: **PROJECT: Cameron Run CR07-8**

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification [1] Level (mg/kg)	Reporting [2] Results (mg/kg)	Units	Sample [3] Type
222	108-88-3	Toluene	SW8260B	0.0062	0.0062	mg/kg	C
373	79-00-5	1,1,2-Trichloroethane	SW8260B	0.0062	0.0062	mg/kg	C
155	79-01-6	Trichloroethylene	SW8260B	0.0062	0.0062	mg/kg	C
Acids Extractables (Part B.5.)							
267	95-57-8	2-Chlorophenol	SW8270C	0.32	0.32	mg/kg	C
268	120-83-2	2,4-Dichlorophenol	SW8270C	0.066	0.066	mg/kg	C
269	105-67-9	2,4-Dimethylphenol	SW8270C	0.32	0.32	mg/kg	C
---	534-52-1	2-Methyl-4,6-Dinitrophenol	SW8270C	1.5	1.5	mg/kg	C
270	51-28-5	2,4-Dinitrophenol	SW8270C	1.6	1.6	mg/kg	C
175	108-95-2	Phenol	SW8270C	0.066	0.066	mg/kg	C
Miscellaneous (Part B.6.)							
018	57-12-5	Cyanide, Total	SW9012A	0.62	0.62	mg/kg	C
306	---	Dioxin	---	---	---	---	---
350	1461-22-9	Tributyltin	STL	0.0018	0.0018	mg/kg	C
257	---	Total Petroleum Hydrocarbons (TPH)	SW9035	207	207	mg/kg	C

I certify under penalty of law that this documenta and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the pweson or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. P1001 and 33 U.S.C. P 1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent | Title

Signature of Principal Executive Officer or Authorized Agent | Date

Footnotes to Water Quality Monitoring Attachment B

[1] Quantification Level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method. In this case it is the Reporting Limit (RL).

[2] Results for chemicals that were detected are in bold and shaded.

[3] Sample Type: C = core sample

Any Approved method presented in 40 CFR Part 136

The QL is at the discretion of the permittee. For any substance addressed in 40CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Par 136.

APPENDIX A

LABORATORY CHAIN-OF-CUSTODIES

C7H240243

Client:
EA Engineering Science, and Technology, Inc.
15 Loveton Circle
Sparks, MD 21152

Project Manager:
Christine Papageorgis
Phone: 410-329-5130

Field Contact:
Todd Ward
Phone: 410-746-1250

Project Name: Cameron Run Sediment
Project#: 62132.21

Page 1 of 3

Parameters/Method Numbers for Analysis

Date	Time	Water	Sediment	Sample Identification	No. of Containers	Amerberg Limits(D4318)	Total Kjeldahl Nitrogen(351.3)	Total Phosphorus(365.2)	Sulfide by Titration(SW9030B/9034)	TOC by High Temp. Combustion	Grain Size(ASTM D422)	Total Solids	Chromium VI(7196A)	Volatile Organics by GC/MS(SW 8260B)	Semivolatile Organics(SW 8270C)	Metals(SW 6010B/7471A)	PAHs(SW 8310)	PCB Aroclors(SW 8082)
8/23/07	1045		X	CR07-1	3	X	X	X	X	X	X							
	1050		X	CR07-2	3	X	X	X	X	X	X							
	1055		X	CR07-1/2	5							X	X	X	X	X	X	X
	1100		X	CR07-3	8	X	X	X	X	X	X	X	X	X	X	X	X	X
	1120		X	CR07-4	8	X	X	X	X	X	X	X	X	X	X	X	X	X
	1140		X	CR07-5	8	X	X	X	X	X	X	X	X	X	X	X	X	X
	1330		X	CR07-6	3	X	X	X	X	X	X							
	1335		X	CR07-7	3	X	X	X	X	X	X							
	1340		X	CR07-6/7	5							X	X	X	X	X	X	X
	1400		X	CR07-8	8	X	X	X	X	X	X	X	X	X	X	X	X	X

Chain of Custody Record

Laboratory:
TestAmerica
301 Alpha Drive
Pittsburgh, PA 15238

phone: 412.963.7058
fax: 412.963.2468

ATTN: Carrie Gamber

Remarks

CR07-3 samples have 2 times, 1100 and 1105. Please disregard second time; sample taken at 1100.

CR07-4 samples taken at 1120. Please disregard 1125 time on jars.

CR07-5 samples taken at 1140. Please disregard 1145 time on jars.

CR07-8 samples taken at 1400. Please disregard 1405 time on jars.

Sampled by: (Signature) Todd Ward
Date/Time 8/23/07 1400

Relinquished by: (Signature)
Date/Time

Relinquished by: (Signature) Todd Ward
Date/Time 8/23/07 1700

Received by Laboratory: (Signature)
Date/Time 8/24/07 1000

[redacted]

C7H240243

Client:
EA Engineering Science, and Technology, Inc.
15 Loveton Circle
Sparks, MD 21152

Project Manager:
Christine Papageorgis
Phone: 410-329-5130
Field Contact:
Todd Ward
Phone: 410-746-1250

Project Name: Cameron Run Sediment
Project#: 62132.21

Page 2 of 3

Parameters/Method Numbers for Analysis

Date	Time	Water	Sediment	Sample Identification	No. of Containers	Chlorinated Pesticides(SW 8081A)	Organophosphorus Pesticides(SW 8141A)	Tributyltin(STL-SOP)	Total Petroleum Hydrocarbons(SW 9035)	Cyanide(SW 9012A)	Semivolatile Organics(SW 1311/8270C)	Metals(SW 1311/6010B/7470A)	Pesticides(SW 1311/8081A)	Volatiles(SW 1311/8260B)	Herbicides(SW 1311/8151A)	TCLP Extraction(SW 1311)	ZHE Extraction(SW 1311)	Corrosivity(SW 9045C)	Remarks
8/23/07	1045		X	CR07-1	3														See page 1 of 3 for remarks
	1050		X	CR07-2	3														
	1055		X	CR07-1/2	5	X	X	X	X	X	X	X	X	X	X	X	X	X	
	1100		X	CR07-3	8	X	X	X	X	X	X	X	X	X	X	X	X	X	
	1120		X	CR07-4	8	X	X	X	X	X	X	X	X	X	X	X	X	X	
	1140		X	CR07-5	8	X	X	X	X	X	X	X	X	X	X	X	X	X	
	1330		X	CR07-6	3							X TW							
	1335		X	CR07-7	3							X TW							
	1340		X	CR07-6/7	5	X	X	X	X	X	X	X	X	X	X	X	X	X	
	1400		X	CR07-8	8	X	X	X	X	X	X	X	X	X	X	X	X	X	

Chain of Custody Record

Laboratory:
TestAmerica
301 Alpha Drive
Pittsburgh, PA 15238

phone: 412.963.7058
fax: 412.963.2468

ATTN: Carrie Gamber

Sampled by: (Signature) Todd Ward	Date/Time 8/23/07 1400	Relinquished by: (Signature) Todd Ward	Date/Time 8/23/07 1700
Relinquished by: (Signature)	Date/Time	Received by Laboratory: (Signature) [illegible]	Date/Time 8/24/07 1000

[redacted]

C7H240243

Client:	Project Manager:
EA Engineering Science, and Technology, Inc. 15 Loveton Circle Sparks, MD 21152	Christine Papageorgis Phone: 410-329-5130 Field Contact: Todd Ward Phone: 410-746-1250

Project Name: Cameron Run Sediment

Project#: 62132.21

Page 3 of 3

Parameters/Method Numbers for Analysis

Chain of Custody Record

Laboratory:
TestAmerica
301 Alpha Drive
Pittsburgh, PA 15238

phone: 412.963.7058
fax: 412.963.2468

ATTN: Carrie Gamber

Date	Time	Water	Sediment	Sample Identification	No. of Containers	Ignitibility(SW 1010)	Remarks
8/23/07	1045		X	CR07-1	3		See page 1 of 3 for remarks.
	1050		X	CR07-2	3		
	1055		X	CR07-1/2	5	X	
	1100		X	CR07-3	8	X	
	1120		X	CR07-4	8	X	
	1140		X	CR07-5	8	X	
	1330		X	CR07-6	3		
	1335		X	CR07-7	3		
	1340		X	CR07-6/7	5	X	
	1400		X	CR07-8	8	X	

Sampled by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time
Todd Ward	8/23/07 1400	Todd Ward	8/23/07 1700
Relinquished by: (Signature)	Date/Time	Received by Laboratory: (Signature)	Date/Time
		[illegible]	8/24/07 1000

[redacted]

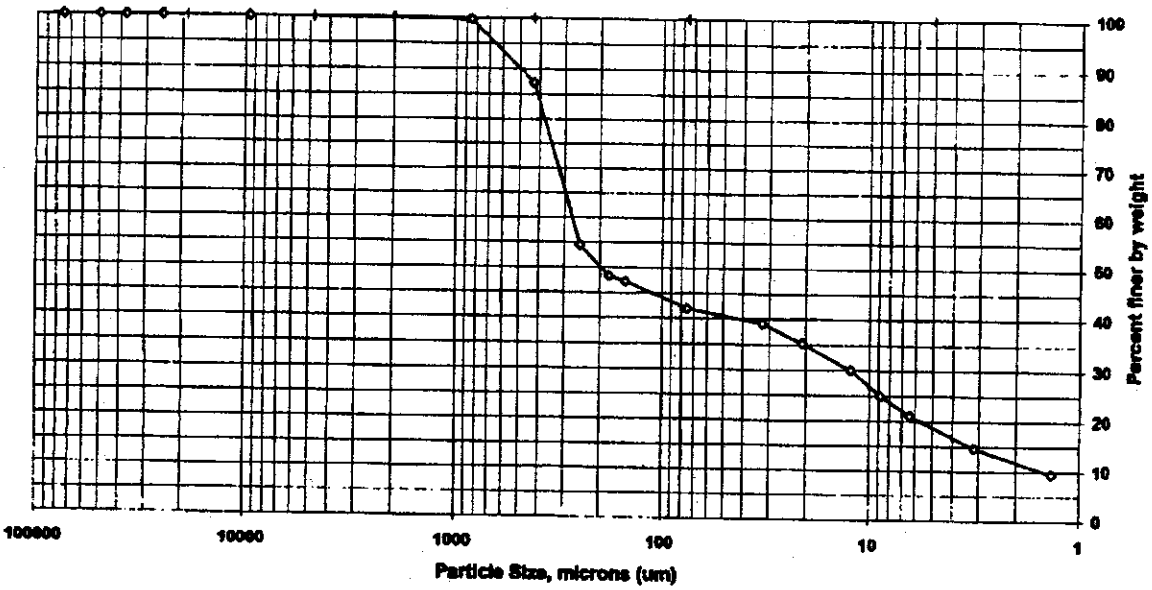
APPENDIX B

GRAIN SIZE CURVES

Particle Size of Soils by ASTM D422

Client Code:	STLPAP	SDG:	7H240243	Date Received:	8/25/2007
Sample ID:	CR07-1	ETR(s):	121802	Start Date:	9/6/2007
Lab ID:	721900			End Date:	9/13/2007

Percent Solids:	64.9%	Non-soil material:	plant
Specific Gravity:	2.650	Shape (> #10):	subangular
Maximum Particle Size:	Crs sand	Hardness (> #10):	hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.7	0.3
#40	425	87.3	12.4
#60	250	54.5	32.9
#80	180	48.3	6.1
#100	150	47.2	1.1
#200	75	41.9	5.3
Hydrometer	32.2	39.1	2.8
I	20.7	35.2	3.9
I	12.2	30.1	5.2
I	8.8	24.9	5.2
I	6.4	21.1	3.9
I	3.1	14.8	6.4
V	1.4	9.5	5.2

Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	58.1
Coarse Sand	0.0
Medium Sand	12.6
Fine Sand	45.4
Silt	20.9
Clay	21.1

Preparation Method: D2217
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

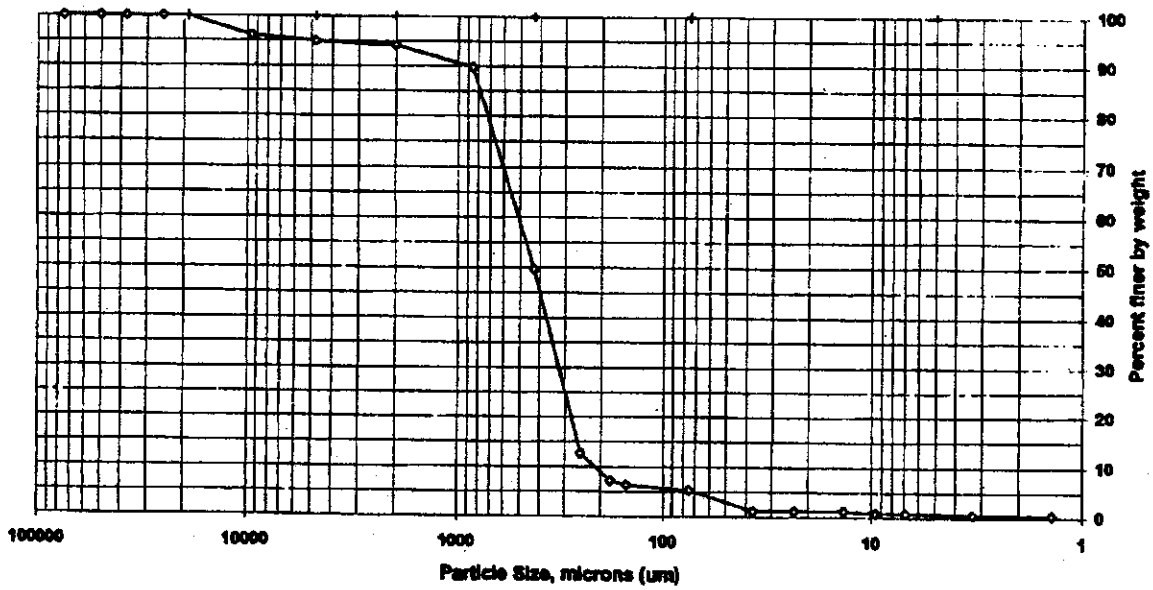
FSL024:07.29.05:0
STL Burlington

7H240243PS 9/14/2007

Particle Size of Soils by ASTM D422

Client Code:	STLPAP	SDG:	7H240243	Date Received:	8/25/2007
Sample ID:	CR07-2	ETR(s):	121602	Start Date:	9/6/2007
Lab ID:	721901			End Date:	9/13/2007

Percent Solids:	79.9%	Non-soil material:	shell, glass
Specific Gravity:	2.650	Shape (> #10):	subangular
Maximum Particle Size:	19 mm	Hardness (> #10):	hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	96.0	4.0
#4	4750	95.0	1.0
#10	2000	94.2	0.8
#20	850	89.8	4.4
#40	425	49.7	40.1
#60	250	12.7	37.0
#80	180	7.1	5.6
#100	150	6.3	0.8
#200	75	5.3	1.0
Hydrometer	36.9	1.2	4.1
I	23.3	1.2	0.0
I	13.5	1.2	0.0
I	9.6	0.8	0.4
I	6.9	0.8	0.0
I	3.3	0.5	0.4
V	1.4	0.5	0.0

Soil Classification	Percent of Total Sample
Gravel	5.0
Sand	89.7
Coarse Sand	0.8
Medium Sand	44.5
Fine Sand	44.4
Silt	4.5
Clay	0.8

Preparation Method: D2217
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

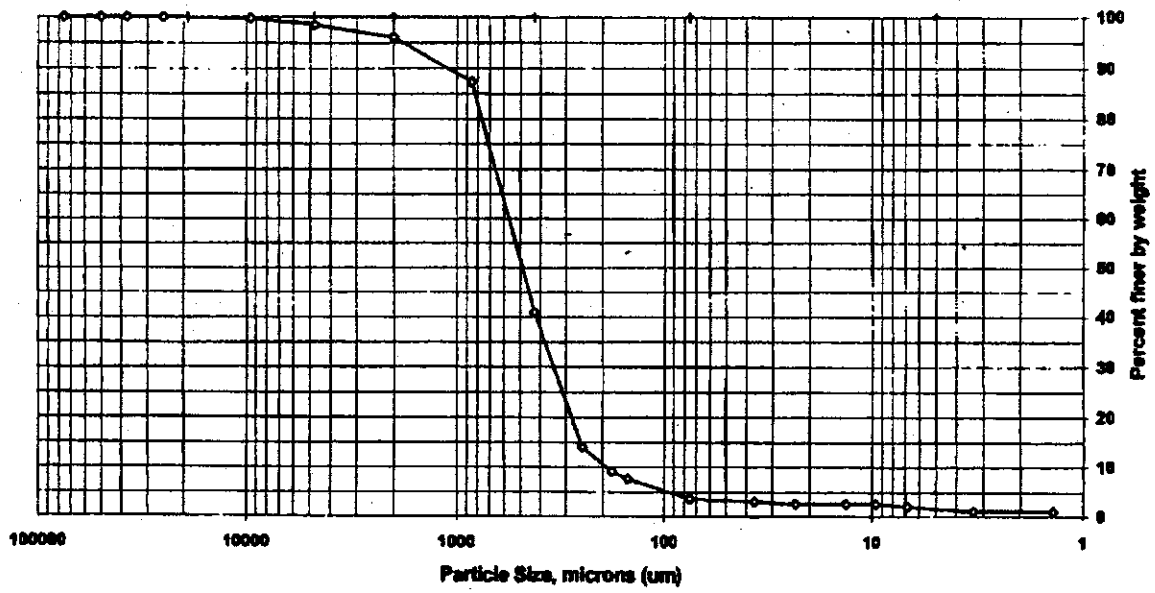
FSL024:07.29.05:0
STL Burlington

7H240243PS 9/14/2007

Particle Size of Soils by ASTM D422

Client Code:	STLPAP	SDG:	7H240243	Date Received:	8/25/2007
Sample ID:	CR07-3	ETR(s):	121602	Start Date:	9/6/2007
Lab ID:	721903			End Date:	9/13/2007

Percent Solids:	74.3%	Non-soil material:	shell
Specific Gravity:	2.650	Shape (> #10):	subangular
Maximum Particle Size:	19 mm	Hardness (> #10):	hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	99.8	0.2
#4	4750	98.5	1.3
#10	2000	96.0	2.5
#20	850	87.4	8.7
#40	425	40.9	46.4
#60	250	14.0	26.9
#80	180	9.0	5.0
#100	150	7.5	1.5
#200	75	3.6	3.9
Hydrometer	36.4	3.1	0.5
I	23.1	2.6	0.5
I	13.4	2.6	0.0
I	9.6	2.6	0.0
I	6.8	2.1	0.5
I	3.3	1.1	1.0
V	1.4	1.1	0.0

Soil Classification	Percent of Total Sample
Gravel	1.5
Sand	94.9
Coarse Sand	2.5
Medium Sand	55.1
Fine Sand	37.3
Silt	1.5
Clay	2.1

Preparation Method: D2217
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

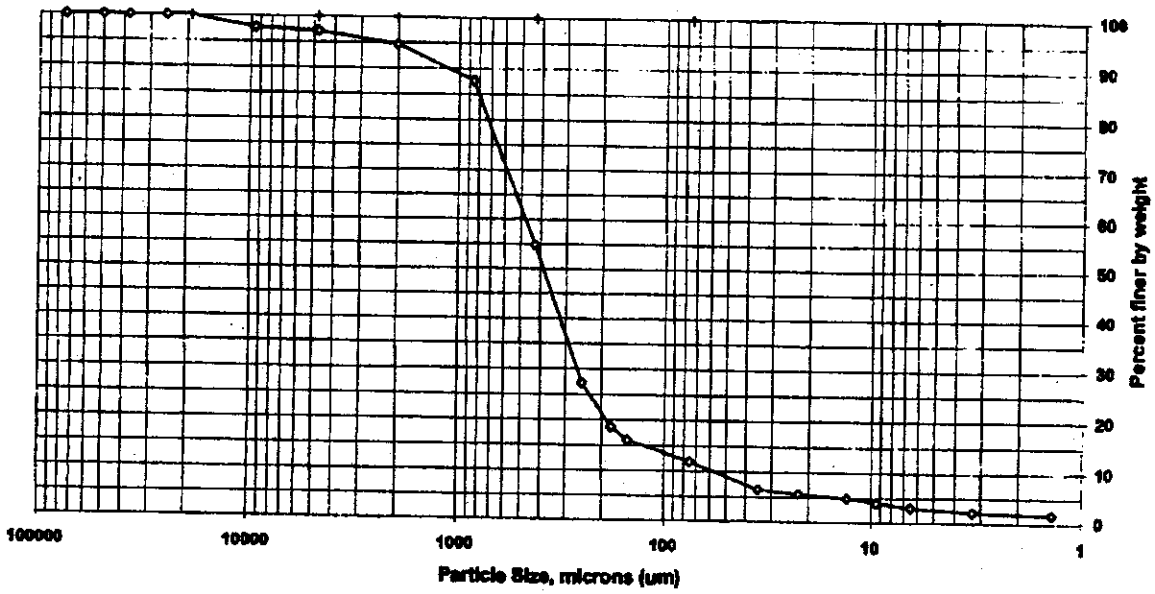
FSL024:07.29.05:0
STL Burlington

7H240243PS 9/14/2007

Particle Size of Soils by ASTM D422

Client Code:	STLPAP	SDG:	7H240243	Date Received:	8/25/2007
Sample ID:	CR07-4	ETR(s):	121602	Start Date:	9/6/2007
Lab ID:	721904			End Date:	9/13/2007

Percent Solids:	80.7%	Non-soil material:	plant
Specific Gravity:	2.650	Shape (> #10):	subangular
Maximum Particle Size:	19 mm	Hardness (> #10):	hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	97.7	2.3
#4	4750	97.1	0.6
#10	2000	94.7	2.4
#20	850	87.6	7.1
#40	425	54.8	32.8
#60	250	27.3	27.6
#80	180	18.6	8.7
#100	150	16.1	2.5
#200	75	11.9	4.2
Hydrometer	34.9	6.5	5.4
	22.3	5.6	0.8
	13.0	4.8	0.8
	9.4	3.9	0.8
	6.8	3.1	0.8
	3.3	2.2	0.8
V	1.4	1.6	0.5

Soil Classification	Percent of Total Sample
Gravel	2.9
Sand	85.3
Coarse Sand	2.4
Medium Sand	39.9
Fine Sand	42.9
Silt	8.6
Clay	3.1

Preparation Method: D2217
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

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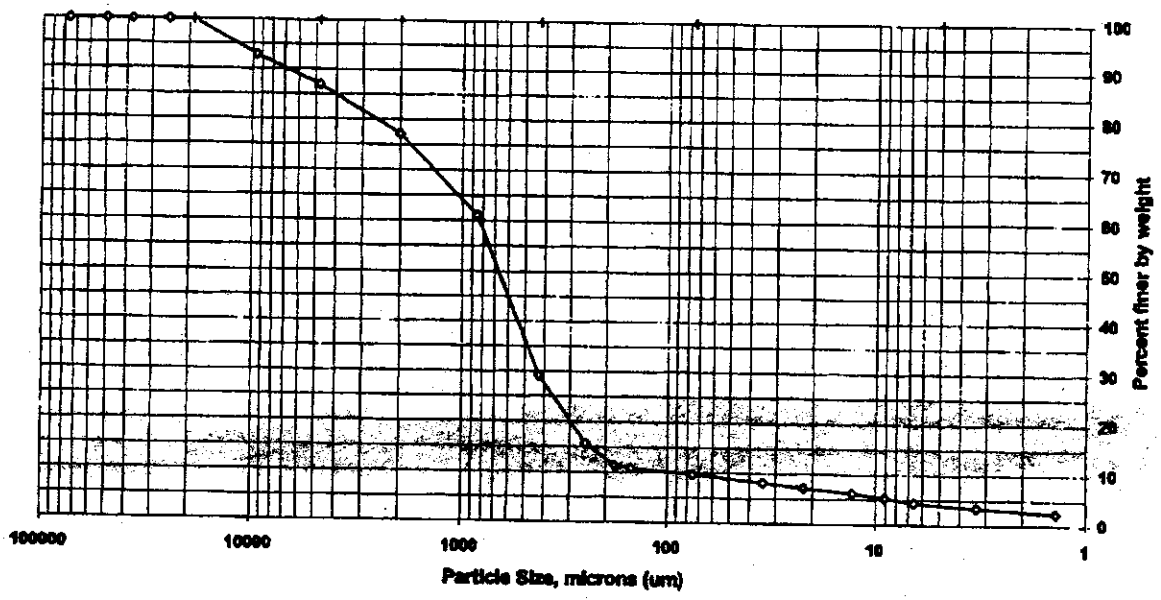
STL Burlington

7H240243PS 9/14/2007

Particle Size of Soils by ASTM D422

Client Code:	STLPAP	SDG:	7H240243	Date Received:	8/25/2007
Sample ID:	CR07-5	ETR(s):	121602	Start Date:	9/6/2007
Lab ID:	721905			End Date:	9/13/2007

Percent Solids:	78.7%	Non-soil material:	n/a
Specific Gravity:	2.650	Shape (> #10):	subangular
Maximum Particle Size:	19 mm	Hardness (> #10):	hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	92.8	7.2
#4	4750	86.8	6.0
#10	2000	77.1	9.8
#20	850	61.0	16.1
#40	425	29.1	31.9
#60	250	15.7	13.4
#80	180	11.4	4.4
#100	150	10.7	0.6
#200	75	9.6	1.1
Hydrometer	34.5	8.1	1.5
I	22.1	7.2	0.9
I	12.9	6.3	0.9
I	9.0	5.3	0.9
I	6.6	4.4	0.9
I	3.3	3.4	0.9
V	1.4	2.4	1.0

Soil Classification	Percent of Total Sample
Gravel	13.2
Sand	77.2
Coarse Sand	9.8
Medium Sand	48.0
Fine Sand	19.5
Silt	5.2
Clay	4.4

Preparation Method: D2217
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

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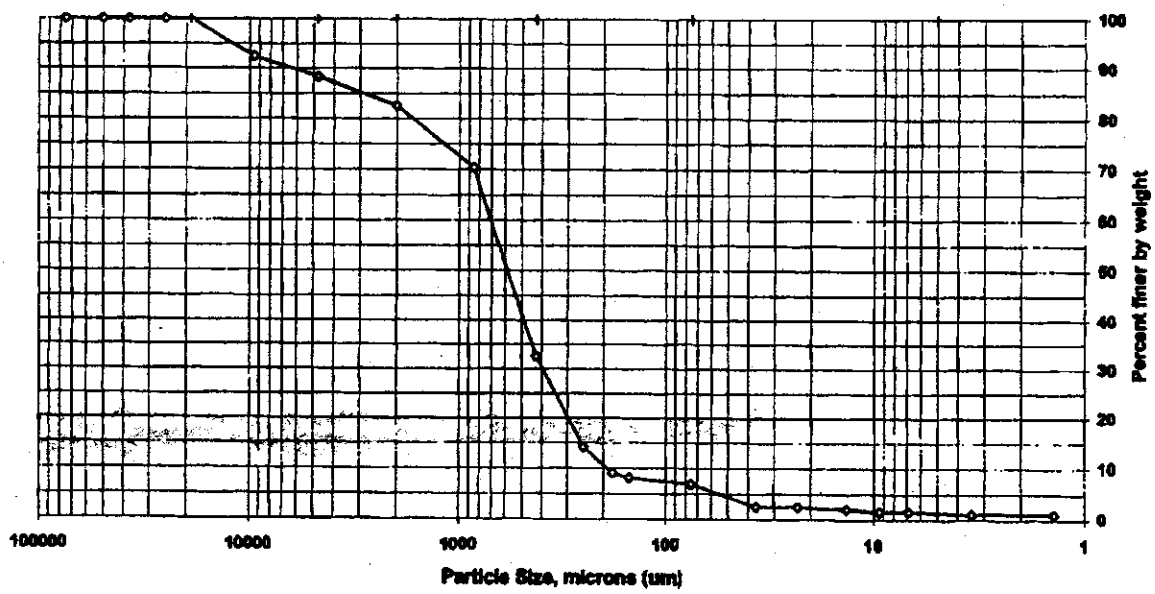
STL Burlington

7H240243PS 9/14/2007

Particle Size of Soils by ASTM D422

Client Code:	STLPAP	SDG:	7H240243	Date Received:	8/25/2007
Sample ID:	CR07-6	ETR(s):	121602	Start Date:	9/6/2007
Lab ID:	721906			End Date:	9/13/2007

Percent Solids:	80.9%	Non-soil material:	plant
Specific Gravity:	2.650	Shape (> #10):	subangular
Maximum Particle Size:	19 mm	Hardness (> #10):	hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	92.4	7.6
#4	4750	88.3	4.1
#10	2000	82.6	5.7
#20	850	70.3	12.3
#40	425	32.5	37.8
#60	250	14.1	18.4
#80	180	9.0	5.1
#100	150	8.1	0.9
#200	75	6.9	1.2
Hydrometer	36.6	2.5	4.4
I	23.1	2.5	0.0
I	13.4	2.0	0.5
I	9.4	1.6	0.5
I	6.8	1.6	0.0
I	3.4	1.1	0.5
V	1.4	1.1	0.0

Soil Classification	Percent of Total Sample
Gravel	11.7
Sand	81.4
Coarse Sand	5.7
Medium Sand	50.0
Fine Sand	25.6
Silt	5.3
Clay	1.6

Preparation Method: D2217
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

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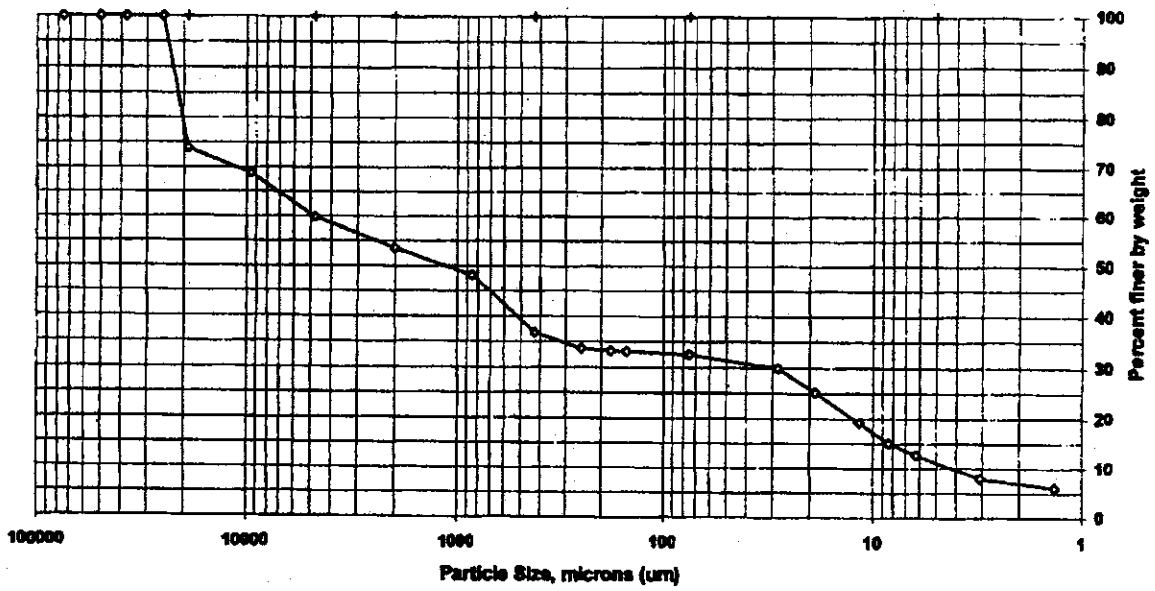
STL Burlington

7H240243PS 9/14/2007

Particle Size of Soils by ASTM D422

Client Code:	STLPAP	SDG:	7H240243	Date Received:	8/25/2007
Sample ID:	CR07-7	ETR(s):	121602	Start Date:	9/6/2007
Lab ID:	721907			End Date:	9/13/2007

Percent Solids:	76.0%	Non-soil material:	n/a
Specific Gravity:	2.650	Shape (> #10):	subangular
Maximum Particle Size:	25 mm	Hardness (> #10):	hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	73.9	26.1
3/8 inch	9500	68.8	5.0
#4	4750	59.8	9.0
#10	2000	53.6	6.3
#20	850	48.1	5.4
#40	425	36.8	11.4
#60	250	33.7	3.1
#80	180	33.2	0.5
#100	150	33.1	0.1
#200	75	32.5	0.6
Hydrometer	28.2	29.9	2.6
I	18.9	25.2	4.8
I	11.6	19.2	5.9
I	8.4	15.1	4.2
I	6.2	12.7	2.4
I	3.1	7.9	4.8
V	1.4	6.0	1.9

Soil Classification	Percent of Total Sample
Gravel	40.2
Sand	27.3
Coarse Sand	6.3
Medium Sand	16.8
Fine Sand	4.3
Silt	19.6
Clay	12.7

Preparation Method: D2217
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

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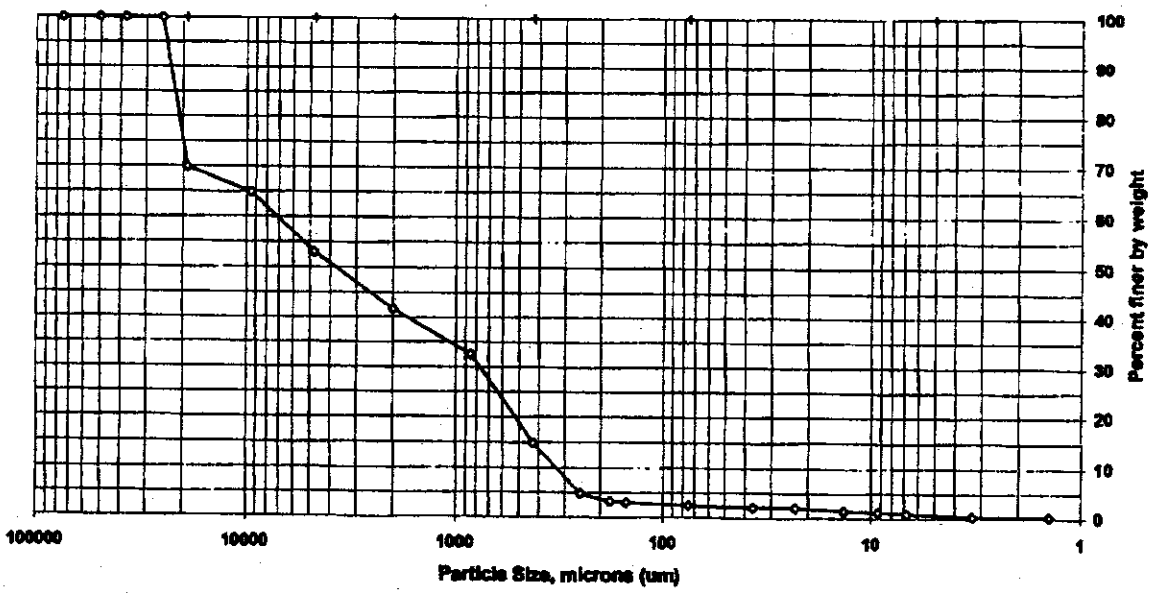
7H240243PS 9/14/2007

Particle Size of Soils by ASTM D422

Client Code:	STLPAP	SDG:	7H240243	Date Received:	8/25/2007
Sample ID:	CR07-8	ETR(s):	121602	Start Date:	9/6/2007
Lab ID:	721909			End Date:	9/13/2007

Percent Solids:	86.0%	Non-soil material:	n/a
Specific Gravity:	2.650	Shape (> #10):	subangular
Maximum Particle Size:	25 mm	Hardness (> #10):	hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	69.9	30.1
3/8 inch	9500	64.9	5.0
#4	4750	53.1	11.9
#10	2000	41.7	11.4
#20	850	32.6	9.1
#40	425	14.9	17.8
#60	250	4.7	10.1
#80	180	3.2	1.5
#100	150	3.0	0.2
#200	75	2.5	0.5
Hydrometer	36.5	2.0	0.4
I	23.1	2.0	0.0
I	13.4	1.5	0.6
I	9.2	1.2	0.3
I	6.8	0.9	0.3
I	3.3	0.3	0.6
V	1.4	0.3	0.0

Soil Classification	Percent of Total Sample
Gravel	46.9
Sand	50.6
Coarse Sand	11.4
Medium Sand	26.8
Fine Sand	12.4
Silt	1.6
Clay	0.9

Preparation Method: D2217
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

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