



January 24, 2012

Ms. Susan Hobbs, Library Manager
Major Hillard Library
824 Old George Washington Highway North
Chesapeake, VA 23323

**RE: Data Repository
Chesapeake Energy Center
2701 Veeco Street
Chesapeake, Virginia 23323**

Dear Ms. Hobbs:

Please find attached, one document related to Dominion's Chesapeake Energy Center (CEC) industrial landfill. The Major Hillard Library is the public data repository for information submitted by Dominion to the Virginia Department of Environmental Quality relating to the CEC landfill Corrective Action Monitoring Program. Throughout the life of the program, Dominion will place on file with the Library copies of associated materials, which should be made available for public viewing until Dominion provides notice. Please include the following document with related CEC materials currently being held for public viewing at the library:

*January 11, 2012
Summary of Corrective Action Monitoring Data
Chesapeake Energy Center, Landfill Permit No. 440*

Thank you for your assistance and please do not hesitate to call Mr. Donald Hintz of Dominion's Electric Environmental Services Department at (804) 273-3552 should there be any questions and/or comments.

Sincerely,

A handwritten signature in cursive script that reads "Cathy C. Taylor".

Cathy C. Taylor
Director, Environmental Services

Attachments

*Data Repository
Chesapeake Energy Center
Chesapeake, Virginia*

cc (cover letter only):

Geoff Christe
Geoff.Christe@deq.virginia.gov

Milt Johnston
mljohnston@deq.virginia.gov

Dominion Resources Services, Inc.
5000 Dominion Boulevard, Glen Allen, VA 23060
Web Address: www.dom.com



January 11, 2012

Ms. Rachel Patton
Department of Environmental Quality
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

**RE: Summary of Corrective Action Monitoring Data
Chesapeake Energy Center, Landfill Permit No. 440**

Dear Ms. Patton:

Please find enclosed the groundwater analytical results for the third and fourth quarters of 2011 pursuant to the Corrective Action Plan and Corrective Action Monitoring Plan for the Chesapeake Energy Center Ash Landfill, Chesapeake, Virginia. Results of the third quarter are being reissued due to the omission of total cobalt, beryllium and sulfide in surface water from the original submission of September 26, 2011.

Should you have any questions or comments, please feel free to contact me at (804) 273-2929, or Donald Hintz of Dominion Electric Environmental Services at (804) 273-3552.

Sincerely,

A handwritten signature in black ink that reads "Cathy C. Taylor". The signature is written in a cursive style with a large, prominent "C" at the beginning.

Cathy C. Taylor
Director
Electric Environmental Services

Enclosures

Ms. Rachel Patton
January 11, 2012
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cc: Geoff Christe
Geoff.Christe@deq.virginia.gov

Milt Johnston
mljohnston@deq.virginia.gov

Table 1
Summary of Corrective Action Monitoring Data
2011 3rd Quarter (July 19-20, 2011)
Chesapeake Energy Center Industrial Landfill - Permit #440
Chesapeake, Virginia

Groundwater Monitoring Wells

Parameter Name	LOD	LOQ	MW-5	MW-5D	CECW-1	CECW-1D	CECW-2	CECW-2D	CECW-3	CECW-3D	CECW-6D	CECW-6D DUP	CECW-6I	CECW-8	CECW-8D	CECW-10R	CECW-15	PO-8	PO-8D	PO-10	PO-10D	FIELD BLANK
Sample Date			7/19/2011	7/19/2011	7/19/2011	7/19/2011	7/19/2011	7/19/2011	7/19/2011	7/19/2011	7/19/2011	7/19/2011	7/19/2011	7/20/2011	7/20/2011	7/20/2011	7/20/2011	7/19/2011	7/19/2011	7/20/2011	7/20/2011	7/20/2011
Primary Performance Parameters (µg/L)																						
Arsenic, total	3	10	6 J	<3	78	26	<3	55	2304	182	32	30	323	<3	16	74	<3	19	3 J	167	135	<3
Arsenic, dissolved	3	10	5 J	<3	76	24	<3	43	15	180	28	28	257	3 J	15	54	<3	17	3 J	178	135	<3
Arsenic III	0.004	0.004	3.5	0.66	58.5	23.8	0.49	39.9	7.91	126	28.9	30.3	243	0.71	14	19.1	0.4	0.23	2.76	96.9	91.4	<0.004
Arsenic V	0.005	0.005	1.65	1.1	9.99	2.72	0.5	2.49	752	7.13	2.39	2.73	10	0.33	3.64	2.41	0.28	0.43	1.06	4.81	4.32	<0.005
Beryllium, total	0.2	1	<0.2	0.7 J	<0.2	<0.2	7.0	<0.2	3.0	<0.2	0.4 J	0.4 J	<0.2	<0.2	<0.2	<0.2	0.2 J	<0.2	<0.2	<0.2	<0.2	<0.2
Beryllium, dissolved	0.2	1	<0.2	0.6 J	<0.2	<0.2	3.8	<0.2	<0.2	<0.2	0.3 J	0.3 J	<0.2	<0.2	<0.2	<0.2	0.2 J	<0.2	<0.2	<0.2	<0.2	<0.2
Cobalt, total	0.6	3	1.4 J	141.0	<0.6	<0.6	15.3	<0.6	288.2	1.2 J	7.4	6.7	1.7 J	<0.6	<0.6	<0.6	1.7 J	<0.6	10.8	<0.6	<0.6	<0.6
Cobalt, dissolved	0.6	3	0.7 J	134.5	<0.6	<0.6	9.4	<0.6	6.6	<0.6	6.0	6.0	0.9 J	<0.6	<0.6	<0.6	1.4 J	<0.6	8.7	<0.6	<0.6	<0.6
Sulfide	0.0002	200	<0.0002	<0.0002	400	200	<0.0002	400	<0.0002	8,800	<0.0002	NT	200	133,000	<0.0002	<0.0002	<0.0002	400	400	<0.0002	400	<0.0002
Performance Parameters (mg/L)																						
Iron, dissolved	0.05	0.25	2.98	248.60	5.36	6.62	10.32	13.86	<0.05	0.96	13.81	13.12	18.20	<0.05	24.29	2.67	34.28	<0.05	9.53	2.13	2.30	<0.05
Iron, total	0.05	0.25	5.46	260.70	6.80	8.15	14.11	15.38	101.3	1.69	14.16	13.33	18.61	0.11 J	25.99	3.67	34.53	<0.05	10.50	2.41	2.39	<0.05
Manganese	0.02	0.05	0.13	5.57	0.18	0.47	0.64	0.33	3.27	0.06	0.32	0.32	0.41	<0.02	0.25	0.11	0.35	0.24	0.22	0.08	0.02 J	<0.02
Field Measurements																						
Dissolved Oxygen (mg/L)	N/A	N/A	0.30	0.60	1.98	0.53	0.40	0.59	2.87	0.17	0.28	0.28	0.62	0.05	0.72	1.17	0.46	2.00	0.40	0.93	0.67	--
Oxidation Reduction Potential (mV)	N/A	N/A	159	283	103	208	-55	14	262	-26	288	288	15	-212	136	-66	370	-86	228	28	17	--
pH (S.U.)	N/A	N/A	5.86	5.31	6.65	6.47	6.21	6.47	6.85	7.45	5.72	5.72	6.74	7.89	6.32	6.38	4.97	7.21	6.33	6.88	6.74	--
Specific Conductance (uS/cm)	N/A	N/A	802	18000	6500	23400	11140	28500	22800	32200	20800	20800	13790	30700	30100	29400	29600	4410	4119	30400	28700	--
Temperature (Degrees Celsius)	N/A	N/A	22.23	27.96	22.15	19.87	24.28	19.16	17.36	20.51	19.67	19.70	19.46	27.42	17.63	22.59	19.62	20.27	20.26	23.49	21.23	--
Turbidity (NTU)	N/A	N/A	4.49	6.63	4.95	2.18	19.60	11.55	34.80	20.50	7.26	6.09	0.87	2.04	26.30	98.2	1.89	5.93	33.0	3.25	3.58	--

Surface Water

Parameter Name	LOD	LOQ	SW-1	SW-2	SW-3	SW-4	SW-4 DUP	FIELD BLANK
Sample Date			7/20/2011	7/20/2011	7/20/2011	7/20/2011	7/20/2011	7/20/2011
Primary Constituents (µg/L)								
Arsenic, total	3	10	<3	<3	<3	<3	<3	<3
Arsenic III	0.004	0.004	0.32	0.31	0.32	0.27	<0.004	NT
Arsenic V	0.005	0.005	1.38	1.58	1.31	1.91	1.48	NT
Beryllium, total	0.2	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cobalt, total	0.6	3	0.8 J	0.8 J	0.8 J	0.8 J	0.6 J	<0.6
Sulfide	0.0002	200	NT	NT	NT	NT	NT	NT
Water Quality Parameters (mg/L)								
Iron, total	0.05	0.25	0.34	0.36	0.19 J	0.19 J	0.19 J	<0.05
Total Suspended Solids	1	1	14.0	12.6	5.8	34.1	50.7	<1
Field Measurements								
Dissolved Oxygen (mg/L)	N/A	N/A	3.73	4.85	5.99	6.66	6.61	--
Oxidation Reduction Potential (mV)	N/A	N/A	328	314	354	323	323	--
pH (S.U.)	N/A	N/A	7.29	7.40	7.37	7.52	7.52	--
Specific Conductance (uS/cm)	N/A	N/A	31150	31400	31300	31700	31500	--
Temperature (Degrees Celsius)	N/A	N/A	37.40	38.21	33.59	35.05	35.12	--
Turbidity (NTU)	N/A	N/A	2.95	2.96	3.60	2.87	2.81	--

Notes:

LOD = Limit of detection
LOQ = Limit of quantitation
mg/L = Milligrams per liter
mV = Millivolts
N/A = Not applicable
NT = Not tested
NTU = Nephelometric Turbidity Units
S.U. = Standard units
µg/L = Micrograms per liter
uS/cm = MicroSiemens per centimeter
Bold font = Detected concentration

Data Qualifiers:

J = Concentration is between LOD and LOQ, and is considered estimated.

Table 1
Summary of Corrective Action Monitoring Data
2011 4th Quarter (November 1-3, 2011)
Chesapeake Energy Center Industrial Landfill - Permit #440
Chesapeake, Virginia

Groundwater Monitoring Wells

Parameter Name	LOD	LOQ	MW-5	MW-5 DUP	MW-5D	CECW-1	CECW-1D	CECW-2	CECW-2D	CECW-3	CECW-3D	CECW-6D	CECW-6I	CECW-8	CECW-8D	CECW-10R	CECW-15	PO-8	PO-8D	PO-10	PO-10D	FIELD BLANK
			11/1/2011	11/1/2011	11/2/2011	11/2/2011	11/2/2011	11/2/2011	11/2/2011	11/2/2011	11/2/2011	11/2/2011	11/2/2011	11/2/2011	11/1/2011	11/3/2011	11/2/2011	11/2/2011	11/1/2011	11/2/2011	11/2/2011	11/2/2011
Primary Performance Parameters (µg/L)																						
Arsenic, total	3	10	6 J	3 J	<3	81	27	10	69	167	171	29	374	NS	17	88	<3	13	3 J	146	128	<3
Arsenic, dissolved	3	10	6 J	<3	<3	74	24	4 J	71	19	175	26	341	NS	16	82	<3	12	<3	143	124	<3
Arsenic III	0.004	0.21	2.81	0.32	0.94	42.6	18.7	2.94	34.1	1.78	82.4	28.6	213	NS	10.4	15.9	0.4	0.4	1.81	62.5	44.4	<0.004 U
Arsenic V	0.008	0.41	1.03	2.02	<0.008 U	7.38	1.00	<0.008 U	3.89	65.5	2.82	1.86	10.9	NS	0.44	1.58	<0.008 U	0.94	<0.008 U	3.79	3.30	<0.008 U
Beryllium, total	0.2	1	<0.2	<0.2	0.5 J	0.6 J	<0.2	1.7	<0.2	0.2 J	<0.2	0.3 J	<0.2	NS	<0.2	<0.2	0.2 J	<0.2	0.7 J	<0.2	<0.2	<0.2
Beryllium, dissolved	0.2	1	<0.2	<0.2	0.5 J	<0.2	<0.2	0.5 J	<0.2	<0.2	<0.2	0.2 J	<0.2	NS	<0.2	<0.2	0.2 J	<0.2	<0.2	<0.2	<0.2	<0.2
Cobalt, total	0.6	3	1.2 J	1.0 J	80.2	0.9 J	<0.6	5.9	<0.6	60.9	<0.6	7.0	1.9 J	NS	<0.6	<0.6	1.5 J	<0.6	7.0	<0.6	<0.6	<0.6
Cobalt, dissolved	0.6	3	<0.6	0.8 J	78.4	<0.6	<0.6	2.7 J	<0.6	6.2	<0.6	5.9	2.0 J	NS	<0.6	<0.6	1.4 J	<0.6	3.6	<0.6	<0.6	<0.6
Sulfide	0.0002	200	400	NT	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	NS	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Performance Parameters (mg/L)																						
Iron, total	0.05	0.25	1.55	1.57	152.6	5.22	7.85	32.73	15.77	8.79	1.18	11.46	18.9	NS	25.77	1.57	29.9	0.16 J	5.76	1.13	2.71	<0.05
Iron, dissolved	0.05	0.25	1.37	1.47	155.3	5.31	7.61	24.96	15.05	1.27	0.99	11.26	20.81	NS	24.56	1.6	29.07	0.11 J	2.97	1.06	2.93	<0.05
Manganese	0.02	0.05	0.11	0.11	3.74	0.17	0.57	0.47	0.50	0.75	0.17	0.44	0.52	NS	0.41	0.25	0.42	0.28	0.13	0.19	0.13	<0.02
Field Measurements																						
Dissolved Oxygen (mg/L)	N/A	N/A	3.55	3.53	0.42	1.01	0.45	0.26	0.07	1.07	0.59	0.46	1.00	NS	1.61	0.20	0.22	1.16	8.01	0.42	0.38	--
Oxidation Reduction Potential (mV)	N/A	N/A	172	171	193	-52	104	-104	-13	212	17	210	-51	NS	88	-123	347	-153	66	41	18	--
pH (S.U.)	N/A	N/A	5.88	5.88	5.42	6.64	6.49	6.04	6.51	6.72	7.24	5.6	6.54	NS	6.03	6.45	4.94	6.91	6.21	6.77	6.62	--
Specific Conductance (uS/cm)	N/A	N/A	651	652	16800	5600	21900	12350	29000	17200	29200	20500	13260	NS	29800	28900	29300	3560	3390	29600	30500	--
Temperature (Degrees Celsius)	N/A	N/A	21.79	21.78	20.15	18.80	18.19	20.59	18.38	21.86	18.78	18.19	18.27	NS	18.16	18.62	18.54	20.72	18.37	19.01	18.92	--
Turbidity (NTU)	N/A	N/A	8.49	8.51	3.12	8.24	3.64	9.60	2.62	34.2	40.1	7.58	1.26	NS	9.24	14.89	6.03	0.79	300	1.86	5.88	--

Surface Water

Parameter Name	LOD	LOQ	SW-1	SW-2	SW-3	SW-3 DUP	SW-4	SW-4 DUP
			11/1/2011	11/1/2011	11/1/2011	11/1/2011	11/1/2011	11/1/2011
Primary Constituents (µg/L)								
Arsenic, total	3	10	<3	<3	<3	<3	<3	NT
Arsenic III	0.004	0.21	<0.004 U	0.27	0.31	NT	<0.004 U	NT
Arsenic V	0.008	0.41	0.47	<0.008 U	<0.008 U	NT	<0.008 U	NT
Beryllium, total	0.2	1	<0.2	<0.2	<0.2	<0.2	<0.2	NT
Cobalt, total	0.6	3	0.7 J	<0.6	0.8 J	0.9 J	<0.6	NT
Sulfide	0.0002	200	<0.0002	<0.0002	<0.0002	NT	<0.0002	<0.0002
Water Quality Parameters (mg/L)								
Iron, total	0.05	0.25	0.49	0.49	0.62	0.65	0.51	NT
Total Suspended Solids	1	10	6 J	6 J	5.8 J	5.9 J	3.6 J	NT
Field Measurements								
Dissolved Oxygen (mg/L)	N/A	N/A	NT	NT	NT	NT	NT	NT
Oxidation Reduction Potential (mV)	N/A	N/A	NT	NT	NT	NT	NT	NT
pH (S.U.)	N/A	N/A	7.34	7.60	7.57	7.53	7.56	NT
Specific Conductance (uS/cm)	N/A	N/A	28600	28200	28100	28100	26400	NT
Temperature (Degrees Celsius)	N/A	N/A	24.26	23.27	18.77	18.72	18.26	NT
Turbidity (NTU)	N/A	N/A	3.07	5.73	8.94	6.47	3.55	NT

Notes:

LOD = Limit of detection
LOQ = Limit of quantitation
mg/L = Milligrams per liter
mV = Millivolts
N/A = Not applicable
NS = Not sampled; well under water.
NT = Not tested
NTU = Nephelometric Turbidity Units
S.U. = Standard units
µg/L = Micrograms per liter
uS/cm = MicroSiemens per centimeter
Bold font = Detected concentration

Data Qualifiers:

J = Concentration is between LOD and LOQ, and is considered estimated.
U = Not detected.