



May 9, 2016

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:

*Summary of Corrective Action Monitoring Data  
2016 1<sup>st</sup> Semi-Annual Monitoring (March 21-23, 2016)  
Chesapeake Energy Center Landfill - Permit No. 440  
Chesapeake, Virginia*

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

Sincerely,

A handwritten signature in blue ink that reads "Paula A. Hamel".

Paula A. Hamel  
Director, Generation Environmental Services

Attachment

*Data Repository  
Chesapeake Energy Center  
Chesapeake, Virginia*

cc (cover letter only):

Geoff Christe  
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**Table 1**  
**Summary of Corrective Action Monitoring Data**  
**2016 1st Semi-Annual Monitoring (March 21-23, 2016)**  
**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-6I	CECW-6D	CECW-8	CECW-8D	CECW-10R	CECW-15	PO-8	PO-8D	PO-10	PO-10D	CECW-8D DUP	FIELD BLANK
Sample Date			3/21/2016	3/21/2016	3/22/2016	3/22/2016	3/22/2016	3/22/2016	3/22/2016	3/22/2016	3/22/2016	3/22/2016	3/22/2016	3/22/2016	3/22/2016	3/22/2016	3/22/2016	3/22/2016	3/22/2016	3/23/2016	3/22/2016	3/21/2016
<b>Primary Performance Parameters (µg/L)</b>																						
Arsenic, total	1	5	<b>8</b>	<b>2 J</b>	<b>26</b>	<b>28</b>	<b>2 J</b>	<b>77</b>	<b>44</b>	<b>153</b>	<b>220</b>	NS	<b>15</b>	<b>11</b>	<b>108</b>	<b>2 J</b>	<b>20</b>	<b>92</b>	<b>110</b>	<b>91</b>	<b>12</b>	<1
Arsenic, dissolved	1	5	<b>7</b>	<b>2 J</b>	<b>28</b>	<b>31</b>	<b>2 J</b>	<b>72</b>	<b>36</b>	<b>154</b>	<b>223</b>	NS	<b>5</b>	<b>8</b>	<b>67</b>	<b>2 J</b>	<b>16</b>	<b>2 J</b>	<b>94</b>	<b>97</b>	<b>8</b>	<1
Arsenic III	0.2	2.0	<b>1.18 J</b>	<b>0.41 J</b>	<b>7.81</b>	<b>7.35</b>	<b>0.56 J</b>	<b>22.6</b>	<b>0.66 J</b>	<b>45.8</b>	<b>82.3</b>	NS	<b>0.67 J</b>	<b>2.49</b>	<b>69.8</b>	<b>0.27 J</b>	<b>4.66</b>	<b>0.37 J</b>	<b>23.8</b>	<b>25.4</b>	<b>2.16</b>	<0.2 U
Arsenic V	0.2	2.0	<b>6.04</b>	<0.2 U	<b>5.51</b>	<b>4.95</b>	<b>0.70 J</b>	<b>10.2</b>	<b>38.4</b>	<b>77.3</b>	<b>66.2</b>	NS	<0.2 U	<b>0.99 J</b>	<b>41.1</b>	<0.2 U	<b>2.51</b>	<0.2 U	<b>37.5</b>	<b>40.6</b>	<b>0.77 J</b>	<0.2 U
Beryllium, total	0.1	1	<0.1	<b>0.1 J</b>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NS	<0.1	<0.1	<0.1	<b>0.2 J</b>	<0.1	<b>0.1 J</b>	<0.1	<0.1	<0.1	<0.1
Beryllium, dissolved	0.1	1	<0.1	<b>0.1 J</b>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NS	<0.1	<0.1	<0.1	<b>0.2 J</b>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cobalt, total	0.3	3	<b>0.4 J</b>	<b>35.2</b>	<0.3	<0.3	<b>4.9</b>	<0.3	<b>10.1</b>	<0.3	<b>1.1 J</b>	NS	<0.3	<b>0.4 J</b>	<0.3	<b>0.9 J</b>	<0.3	<b>2.7 J</b>	<0.3	<0.3	<b>0.4 J</b>	<0.3
Cobalt, dissolved	0.3	3	<0.3	<b>34.9</b>	<0.3	<0.3	<b>1.5 J</b>	<0.3	<b>6.6</b>	<0.3	<b>1.1 J</b>	NS	<b>0.4 J</b>	<b>0.4 J</b>	<0.3	<0.3	<0.3	<b>2.9 J</b>	<0.3	<0.3	<b>0.4 J</b>	<0.3
Sulfide	500	1,000	<500	<500	<500	<500	<b>13,700</b>	<500	<500	<500	<500	NS	<b>100,000</b>	<500	<b>6,380</b>	<500	<b>7,240</b>	<500	<b>800 J</b>	<500	<500	<500
Sulfide, dissolved	140	1,000	<140	<140	<140	<140	<b>7,060</b>	<140	<140	<b>260 J</b>	<140	NS	<b>88,800</b>	<140	<b>5,770</b>	<140	<b>6,670</b>	<140	<b>980 J</b>	<b>390 J</b>	<140	<140
<b>Performance Parameters (mg/L)</b>																						
Iron, total	0.05	0.25	<b>0.70</b>	<b>52.92</b>	<b>8.27</b>	<b>8.61</b>	<b>39.22</b>	<b>10.66</b>	<b>1.44</b>	<b>1.20</b>	<b>11.73</b>	NS	<b>4.49</b>	<b>21.26</b>	<b>1.17</b>	<b>22.81</b>	<0.05	<b>3.93</b>	<b>1.25</b>	<b>0.61</b>	<b>22.55</b>	<0.05
Iron, dissolved	0.05	0.25	<b>0.25</b>	<b>56.48</b>	<b>7.26</b>	<b>8.04</b>	<b>11.50</b>	<b>8.69</b>	<b>0.08 J</b>	<b>0.45</b>	<b>10.56</b>	NS	<b>0.12 J</b>	<b>20.78</b>	<b>0.94</b>	<b>21.61</b>	<b>0.06 J</b>	<b>2.18</b>	<b>0.32</b>	<b>0.60</b>	<b>21.75</b>	<0.05
Manganese	0.02	0.05	<0.02	<b>1.46</b>	<b>0.28</b>	<b>0.40</b>	<b>0.27</b>	<b>0.31</b>	<b>0.37</b>	<b>0.09</b>	<b>0.26</b>	NS	<b>0.21</b>	<b>0.31</b>	<b>0.17</b>	<b>0.36</b>	<b>0.31</b>	<b>0.09</b>	<b>0.16</b>	<b>0.09</b>	<b>0.34</b>	<0.02
<b>Field Measurements</b>																						
Dissolved Oxygen (mg/L)	N/A	N/A	6.7	0.28	6.8	0.24	0.25	0.13	4.58	0.31	0.49	NS	1.47	0.48	0.16	0.39	1.42	6.0	0.68	0.18	0.47	--
Oxidation Reduction Potential (mV)	N/A	N/A	3.9	38	-114	-28	-284	-172	35	-232	-141	NS	-351	-25	-281	-3	-234	-14	-204	-217	-25	--
pH (S.U.)	N/A	N/A	6.40	5.80	6.46	6.72	7.03	6.76	7.43	7.88	7.03	NS	7.46	6.28	6.73	5.18	7.02	6.27	7.23	7.67	6.28	--
Specific Conductance (uS/cm)	N/A	N/A	321	7800	7920	19800	9550	29000	15000	22200	6380	NS	26200	29200	21200	29300	2740	3030	16400	22200	29200	--
Temperature (Degrees Celsius)	N/A	N/A	14.84	17.81	16.35	17.30	16.68	17.89	17.19	17.71	16.91	NS	12.97	15.81	13.74	16.29	14.50	17.78	14.33	16.47	15.80	--
Turbidity (NTU)	N/A	N/A	9.04	2.83	3.61	9.77	9.08	0.69	16.9	6.96	8.4	NS	122	21.3	5.68	5.12	2.79	46.8	21.8	6.52	21.5	--

**Surface Water**

Parameter Name	LOD	LOQ	SW-1	SW-2	SW-3	SW-4	SW-4 DUP	FIELD BLANK
Sample Date			3/22/2016	3/22/2016	3/22/2016	3/22/2016	3/22/2016	3/21/2016
<b>Primary Constituents (µg/L)</b>								
Arsenic, total	1	5	<b>1 J</b>	<b>1 J</b>	<b>1 J</b>	<b>1 J</b>	<b>1 J</b>	<1
Arsenic III	0.2	2.00	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Arsenic V	0.2	2	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Beryllium, total	0.1	1	<b>0.1 J</b>	<b>0.1 J</b>	<0.1	<0.1	<0.1	<0.1
Cobalt, total	0.3	3	<0.3	<b>0.5 J</b>	<0.3 *	<b>0.6 J</b>	<b>0.5 J</b>	<0.3
Sulfide	500	1000	<500	<500	<500	<500	<500	<500
Sulfide, dissolved	140	1000	<140	<140	<140	<140	<140	<140
<b>Water Quality Parameters (mg/L)</b>								
Iron, total	0.05	0.25	<b>0.73</b>	<b>1.18</b>	<b>0.60</b>	<b>0.61</b>	<b>0.60</b>	<0.05
Total Suspended Solids	1	1	<b>7.0</b>	<b>27.7</b>	<b>11.2</b>	<b>9.5</b>	<b>11.5</b>	<1
<b>Field Measurements</b>								
Dissolved Oxygen (mg/L)	N/A	N/A	6.85	6.53	6.59	8.07	7.65	--
Oxidation Reduction Potential (mV)	N/A	N/A	-100	94	103	-177	-176	--
pH (S.U.)	N/A	N/A	7.02	6.74	7.22	8.13	8.11	--
Specific Conductance (uS/cm)	N/A	N/A	15000	14200	19700	17000	17000	--
Temperature (Degrees Celsius)	N/A	N/A	11.85	12.00	12.71	12.15	12.12	--
Turbidity (NTU)	N/A	N/A	7.60	7.19	7.99	5.97	5.12	--

**Notes:**

LOD = Limit of detection  
 LOQ = Limit of quantitation  
 mg/L = Milligrams per liter  
 mV = Millivolts  
 N/A = Not applicable  
 NTU = Nephelometric Turbidity Units  
 NS = Not sampled, pump not functional  
 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.

\* Laboratory revised value (6/13/16)