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August 4, 2022

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Dear Library Manager:

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

[Revised to add additional surface water constituents]
Summary of Corrective Action Monitoring Data
2022 1st Semi-Annual Monitoring (April 18-22, 2022, May 23, 2022, and June 22, 2022)
Chesapeake Energy Center Landfill – Permit No. 440
Chesapeake, Virginia

Thank you for your assistance and please do not hesitate to call Kelly Hicks of Dominion Energy's Environmental Department at (804) 273-4903 should there be any questions and/or comments.

Sincerely,

Dennis A. Slade
Manager, Environmental

Attachment

ecc (cover letter only):
Geoff Christe, VA DEQ – geoff.christe@deq.virginia.gov
Rachel Patton, VA DEQ – rachel.patton@deq.virginia.gov
TRO.LandProtection@deq.virginia.gov

Table 1
Summary of Corrective Action Monitoring Data
2022 1st Semi-Annual Monitoring Event (April 18-22, May 23, and June 22, 2022)
Chesapeake Energy Center Industrial Landfill - Permit #440
Chesapeake, Virginia

Groundwater Monitoring Wells

Sample ID:	MW-5				MW-5D				CECW-1				CECW-1D				CECW-2				CECW-2				CECW-2D				CECW-3				CECW-3D			
Sample Date:	4/18/2022				4/18/2022				4/19/2022				4/19/2022				4/19/2022				4/19/2022				4/19/2022				4/18/2022				4/18/2022			
Parameter Name	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL
Primary Performance Parameters (µg/L)																																				
Antimony, total	<0.51	U	0.51	2.0	<0.51	U	0.51	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	NS		--	--	<0.51	U	0.51	2.0
Antimony, dissolved	<0.51	U	0.51	2.0	<0.51	U	0.51	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	NS		--	--	<0.51	U	0.51	2.0
Arsenic, total	**7.4**		0.28	1.0	**2.5**		0.28	1.0	**21**		0.75	5.0	**94**		0.75	5.0	**15**		0.75	5.0	**15**		0.75	5.0	**130**		0.75	5.0	NS		--	--	**220**		0.28	1.0
Arsenic, dissolved	**6.6**		0.28	1.0	**2.2**		0.28	1.0	**1100**		0.75	5.0	**33**		0.75	5.0	**2.8**	J	0.75	5.0	**2.8**	J	0.75	5.0	**140**		0.75	5.0	NS		--	--	**210**		0.28	1.0
Arsenic III (dissolved)	**2.1**		0.35	0.50	**1.3**	J	0.26	0.50	**780**		38	75	**11**	J-	0.51	1.0	**1.3**		0.26	0.50	**1.3**		0.26	0.50	**98**	J-	3.8	7.5	NS		--	--	**140**	J	3.8	7.5
Arsenic V (dissolved)	**2.6**		0.26	0.50	<0.35	UJ	0.35	0.50	<52	U	52	75	**17**	J-	2.1	3.0	<0.35	U	0.35	0.50	<0.35	U	0.35	0.50	<5.2	UJ	5.2	7.5	NS		--	--	<13	UJ	13	19
Beryllium, total	<0.27	U	0.27	1.0	<0.27	U	0.27	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	**3.2**		0.62	1.0	**3.2**		0.62	1.0	<0.62	U	0.62	1.0	NS		--	--	<0.27	U	0.27	1.0
Beryllium, dissolved	<0.27	U	0.27	1.0	<0.27	U	0.27	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	NS		--	--	<0.27	U	0.27	1.0
Cobalt, total	**0.96**		0.26	0.50	**5.3**		0.26	0.50	**0.31**	J	0.19	1.0	**0.30**	J	0.19	1.0	**16**		0.19	1.0	**16**		0.19	1.0	<0.19	U	0.19	1.0	NS		--	--	<0.26	U	0.26	0.50
Cobalt, dissolved	**0.66**		0.26	0.50	**5.0**		0.26	0.50	<0.19	U	0.19	1.0	**0.27**	J	0.19	1.0	**1.3**		0.19	1.0	**1.3**		0.19	1.0	<0.19	U	0.19	1.0	NS		--	--	<0.26	U	0.26	0.50
Selenium, total	**1.2**	J	0.74	5.0	<0.74	U	0.74	5.0	<0.89	U	0.89	5.0	**2.1**	J	0.89	5.0	**3.5**	J	0.89	5.0	**3.5**	J	0.89	5.0	<0.89	U	0.89	5.0	NS		--	--	<0.74	U	0.74	5.0
Selenium, dissolved	**0.83**	J	0.74	5.0	<0.74	U	0.74	5.0	<0.89	U	0.89	5.0	<0.89	U	0.89	5.0	**0.94**	J	0.89	5.0	**0.94**	J	0.89	5.0	<0.89	U	0.89	5.0	NS		--	--	<0.74	U	0.74	5.0
Sulfide	<2.1	UJ	2.1	3.0	<2.1	UJ	2.1	3.0	<2.1	UJ	2.1	3.0	<2.1	U	2.1	3.0	<2.1	UJ	2.1	3.0	<2.1	UJ	2.1	3.0	<2.1	U	2.1	3.0	NS		--	--	<2.1	UJ	2.1	3.0
Sulfide, dissolved	<2.1	UJ	2.1	3.0	<2.1	UJ	2.1	3.0	<2.1	UJ	2.1	3.0	<2.1	UJ	2.1	3.0	**2.1**	J	2.1	3.0	**2.1**	J	2.1	3.0	<2.1	U	2.1	3.0	NS		--	--	<2.1	UJ	2.1	3.0
beta-BHC	<0.0092	U	0.0092	0.050	<0.0098	U	0.0098	0.053	<0.0093	U	0.0093	0.050	<0.0089	U	0.0089	0.048	<0.0097	UJ	0.0097	0.052	<0.0097	UJ	0.0097	0.052	<0.0093	U	0.0093	0.050	NS		--	--	<0.0094	U	0.0094	0.051
Performance Parameters (µg/L)																																				
Iron, total	**4800**		28	50	**5900**		28	50	**3700**		47	100	**11000**		47	100	**32000**		47	100	**32000**		47	100	**5700**		47	100	NS		--	--	**110**		28	50
Iron, dissolved	**4600**		28	50	**5500**		28	50	**2600**		47	100	**6100**		47	100	**8700**		47	100	**8700**		47	100	**5600**		47	100	NS		--	--	**64**		28	50
Manganese	**37**		1.3	5.0	**260**		1.3	5.0	**120**		6.2	10	**370**		6.2	10	**160**		6.2	10	**160**		6.2	10	**180**		6.2	10	NS		--	--	**13**		1.3	5.0
Field Measurements																																				
Dissolved Oxygen (mg/L)	0.51		0.01	0.01	0.06		0.01	0.01	0.45		0.01	0.01	0.61		0.01	0.01	0.78		0.01	0.01	0.78		0.01	0.01	0.04		0.01	0.01	--		--	--	0.73		0.01	0.01
Oxidation Reduction Potential (mV)	51.6		0.1	0.1	-4.5		0.1	0.1	-67.5		0.1	0.1	-16.1		0.1	0.1	-4.4		0.1	0.1	-4.4		0.1	0.1	-89.8		0.1	0.1	--		--	--	-6.0		0.1	0.1
pH (S.U.)	5.81		0.01	0.01	6.19		0.01	0.01	6.43		0.01	0.01	6.45		0.01	0.01	5.75		0.01	0.01	5.75		0.01	0.01	6.75		0.01	0.01	--		--	--	7.30		0.01	0.01
Specific Conductance (uS/cm)	257.3		0.1	0.1	2686		0.1	0.1	2497		0.1	0.1	16477		0.1	0.1	3462		0.1	0.1	3462		0.1	0.1	21908		0.1	0.1	--		--	--	1132		0.1	0.1
Temperature (Degrees Celsius)	14.4		0.01	0.01	17.3		0.01	0.01	16.0		0.01	0.01	17.6		0.01	0.01	14.9		0.01	0.01	14.9		0.01	0.01	18.0		0.01	0.01	--		--	--	17.0		0.01	0.01
Turbidity (NTU)	14.73		0.1	0.1	4.03		0.1	0.1	7.77		0.1	0.1	22.9		0.1	0.1	730.06		0.1	0.1	730.06		0.1	0.1	3.32		0.1	0.1	--		--	--	1.28		0.1	0.1

Sample ID:	CECW-6I				CECW-6D				CECW-8				CECW-8D				CECW-10R				CECW-10R				CECW-15				PO-8				PO-8D			
Sample Date:	4/18/2022				4/18/2022				4/21/2022				4/21/2022				4/21/2022				4/21/2022				4/22/2022				4/19/2022				4/19/2022			
Parameter Name	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL
Primary Performance Parameters (µg/L)																																				
Antimony, total	**0.91**	J	0.51	2.0	<0.51	U	0.51	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0
Antimony, dissolved	<0.51	U	0.51	2.0	<0.51	U	0.51	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0
Arsenic, total	**210**		0.28	1.0	**92**		0.28	1.0	**4.2**	J	0.75	5.0	**63**		0.75	5.0	**18**		0.75	5.0	**18**		0.75	5.0	**1.9**	J	0.75	5.0	**17**		0.75	5.0	**3.9**	J	0.75	5.0
Arsenic, dissolved	**200**		0.28	1.0	**82**		0.28	1.0	**4.8**	J	0.75	5.0	**36**		0.75	5.0	**17**		0.75	5.0	**17**		0.75	5.0	**0.93**	J	0.75	5.0	**12**		0.75	5.0	**2.3**	J	0.75	5.0
Arsenic III (dissolved)	**160**		13	25	**66**	J	2.6	5.0	**1.2**	J-	1.3	2.5	**32**	J-	1.3	2.5	**13**		1.3	2.5	**13**		1.3	2.5	<0.26	UJ	0.26	0.50	**58**	J	1.9	3.8	**1.4**	J-	0.26	0.50
Arsenic V (dissolved)	<17	U	17	25	<5.2	UJ	5.2	7.5	<0.35	UJ	0.35	0.5	**9.0**	J-	1.7	2.5	<1.7	U	1.7	2.5	<1.7	U	1.7	2.5	**0.60**	J	0.35	0.50	<0.69	UJ	0.69	1.0	**0.40**	J	0.35	0.50
Beryllium, total	<0.27	U	0.27	1.0	<0.27	U	0.27	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0
Beryllium, dissolved	<0.27	U	0.27	1.0	<0.27	U	0.27	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0
Cobalt, total	**2.3**		0.26	0.50	**4.4**		0.26	0.50	**0.22**	J	0.19	1.0	**0.6**	J	0.19	1.0	<0.19	U	0.19	1.0	<0.19	U	0.19	1.0	**1.5**		0.19	1.0	<0.19	U	0.19	1.0	**6.3**		0.19	1.0
Cobalt, dissolved	**2.3**		0.26	0.50	**5.1**		0.26	0.50	**0.20**	J	0.19	1.0	**0.61**	J	0.19	1.0	**0.20**	J	0.19	1.0	**0.20**	J	0.19	1.0	**1.2**		0.19	1.0	<0.19	U	0.19	1.0	**5.9**		0.19	1.0
Selenium, total	<0.74	U	0.74	5.0	<0.74	U	0.74	5.0	<0.89	U	0.89	5.0	**1.5**	J	0.89	5.0	<0.89	U	0.89	5.0	<0.89	U	0.89	5.0	**2.0**	J	0.89	5.0	<0.89	U	0.89	5.0	**2.1**	J	0.89	5.0
Selenium, dissolved	<0.74	U	0.74	5.0	<0.74	U	0.74	5.0	<0.89	U	0.89	5.0	**1.8**	J	0.89	5.0	<0.89	U	0.89	5.0	<0.89	U	0.89	5.0	**1.6**	J	0.89	5.0	<0.89	U	0.89	5.0	**1.4**	J	0.89	5.0
Sulfide	<2.1	UJ	2.1	3.0	<2.1	UJ	2.1	3.0	**76**	J	2.1	3.0	<2.1	UJ	2.1	3.0	**4.3**		2.1	3.0	**4.3**		2.1	3.0	<2.1	UJ	2.1	3.0	**2.2**	J	2.1	3.0	<2.1	U	2.1	3.0
Sulfide, dissolved	<2.1	UJ	2.1	3.0	<2.1	UJ	2.1	3.0	**77**	J	2.1	3.0	<2.1	UJ	2.1	3.0	**3.7**	J	2.1	3.0	**3.7**	J	2.1	3.0	<2.1	UJ	2.1	3.0	<2.1	UJ	2.1	3.0	<2.1	U	2.1	3.0
beta-BHC	<0.0097	U	0.0097	0.052	<0.0092	U	0.0092	0.050	<0.0096	U	0.0096	0.052	<0.0097	U	0.0097	0.052	<0.0089		0.0089	0.048	<0.0089		0.0089	0.048	<0.0090	U	0.0090	0.049	<0.0089	U	0.0089	0.048	<0.0090	U	0.0090	0.049
Performance Parameters (µg/L)																																				
Iron, total	**13000**		28	50	**13000**		28	50	**620**		47	100	**20000**	J+	47	100	**4700**		47	100	**4700**		47	100	**22000**	J+	47	100	**940**		47	100	**5400**		47	100
Iron, dissolved	**13000**		28	50	**12000**		28	50	**51**	J	47	100	**20000**	J+	47	100	**5300**		47	100	**5300**		47	100	**20000**	J+	47	100	**840**		47	100	**4400**		47	100
Manganese	**250**		1.3	5.0	**390**		1.3	5.0	**110**		6.2	10	**220**	J-	6.2	10	**150**		6.2	10	**150**		6.2	10	**310**	J-	6.2	10	**330**	J	6.2	10	**190**		6.2	10
Field Measurements																																				
Dissolved Oxygen (mg/L)	0.59		0.01	0.01	0.66		0.01	0.01	0.38		0.01	0.01	0.38		0.01	0.01	0.44		0.01	0.01	0.44		0.01	0.01	0.69		0.01	0.01	0.77		0.01	0.01	0.13		0.01	0.01
Oxidation Reduction Potential (mV)	-65.1		0.1	0.1	24.2		0.1	0.1	-354.7		0.1	0.1	-54.8		0.1	0.1	-54.8		0.1	0.1	-54.8		0.1	0.1	168.4		0.1	0.1	1.2		0.1	0.1	-53.0		0.1	0.1
pH (S.U.)	6.48		0.01	0.01	6.09		0.01	0.01	6.97		0.01	0.01	6.11		0.01	0.01	6.11		0.01	0.01	6.11		0.01	0.01	5.06		0.01	0.01	5.99		0.01	0.01	6.54		0.01	0.01
Specific Conductance (uS/cm)	5491		0.1	0.1	16989		0.1	0.1	22180		0.1	0.1	22180		0.1	0.1	4272		0.1	0.1	4272		0.1	0.1	26671		0.1	0.1	1821		0.1	0.1	3383		0.1	0.1
Temperature (Degrees Celsius)	17.4		0.01	0.01	16.9		0.01	0.01	15.0		0.01	0.01	14.5		0.01	0.01	14.5		0.01	0.01	14.5		0.01	0.01	17.9		0.01	0.01	15.1		0.01	0.01	18.1		0.01	0.01
Turbidity (NTU)	0.60		0.1	0.1	6.25		0.1	0.1	6.06		0.1	0.1	4.10		0.1	0.1	4.10		0.1	0.1	4.10		0.1	0.1	13.51		0.1	0.1	2.07		0.1	0.1	9.71		0.1	0.1

Table 1
Summary of Corrective Action Monitoring Data
2022 1st Semi-Annual Monitoring Event (April 18-22, May 23, and June 22, 2022)
Chesapeake Energy Center Industrial Landfill - Permit #440
Chesapeake, Virginia

Groundwater Monitoring Wells

Sample ID:	PO-10				PO-10D				CECW-1D DUP				PO-8 DUP				PO-10 DUP				PO-10 DUP				FIELD BLANK				FIELD BLANK			
Sample Date:	5/23/2022				5/23/2022				4/19/2022				4/19/2022				5/23/2022				5/23/2022				4/19/2022				4/22/2022			
Parameter Name	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**
Primary Performance Parameters (µg/L)																																
Antimony, total	<0.57	U	0.57	2.0	**1.5**	J+	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0
Antimony, dissolved	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0
Arsenic, total	**64**		0.75	5.0	**86**		0.75	5.0	**83**		0.75	5.0	**18**		0.75	5.0	**61**		0.75	5.0	**61**		0.75	5.0	<0.75	U	0.75	5.0	<0.75	U	0.75	5.0
Arsenic, dissolved	**71**		0.75	5.0	**81**		0.75	5.0	**40**		0.75	5.0	**14**		0.75	5.0	**71**		0.75	5.0	**71**		0.75	5.0	<0.75	U	0.75	5.0	<0.75	U	0.75	5.0
Arsenic III (dissolved)	**45**		1.9	3.8	**45**		1.5	3.0	**9.6**	J-	1.7	2.5	**9.0**	J	0.51	1.0	**52**		1.9	3.8	**52**		1.9	3.8	<0.26	U	0.26	0.5	<0.26	U	0.26	0.5
Arsenic V (dissolved)	<2.6	UJ	2.6	3.8	<2.1	U	2.1	3.0	**18**	J-	0.38	0.75	**3.0**	J	1.4	2.0	<2.6	UJ	2.6	3.8	<2.6	UJ	2.6	3.8	<0.35	U	0.35	0.5	<0.35	U	0.35	0.5
Beryllium, total	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0
Beryllium, dissolved	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0
Cobalt, total	<0.19	U	0.19	1.0	**1.1**		0.19	1.0	**0.33**	J	0.19	1.0	<0.19	U	0.19	1.0	<0.19	U	0.19	1.0	<0.19	U	0.19	1.0	<0.19	U	0.19	1.0	<0.19	U	0.19	1.0
Cobalt, dissolved	**0.27**	J	0.19	1.0	<0.19	U	0.19	1.0	**0.31**	J	0.19	1.0	<0.19	U	0.19	1.0	<0.19	U	0.19	1.0	<0.19	U	0.19	1.0	<0.19	U	0.19	1.0	<0.19	U	0.19	1.0
Selenium, total	<0.89	U	0.89	5.0	<0.89	U	0.89	5.0	**1.0**	J	0.89	5.0	<0.89	U	0.89	5.0	<0.89	U	0.89	5.0	<0.89	U	0.89	5.0	<0.89	U	0.89	5.0	<0.89	U	0.89	5.0
Selenium, dissolved	<0.89	U	0.89	5.0	<0.89	U	0.89	5.0	<0.89	U	0.89	5.0	<0.89	U	0.89	5.0	<0.89	U	0.89	5.0	<0.89	U	0.89	5.0	<0.89	U	0.89	5.0	<0.89	U	0.89	5.0
Sulfide	**2.8**	J	2.1	3.0	<2.1	U	2.1	3.0	<2.1	U	2.1	3.0	**2.8**	J	2.1	3.0	<2.1	U	2.1	3.0	<2.1	U	2.1	3.0	<2.1	UJ	2.1	3.0	<2.1	UJ	2.1	3.0
Sulfide, dissolved	**2.5**	J	2.1	3.0	**2.3**	J	2.1	3.0	<2.1	U	2.1	3.0	**2.6**	J	2.1	3.0	**2.2**	J	2.1	3.0	**2.2**	J	2.1	3.0	<2.1	UJ	2.1	3.0	<2.1	UJ	2.1	3.0
beta-BHC	<0.0089	UJ	0.0089	0.048	<0.0096	U	0.0096	0.052	<0.0095	U	0.0095	0.051	<0.0095	U	0.0095	0.051	<0.0095	UJ	0.0095	0.051	<0.0095	UJ	0.0095	0.051	<0.0097	U	0.0097	0.052	<0.0089	U	0.0089	0.048
Performance Parameters (µg/L)																																
Iron, total	**390**		47	100	**5100**		47	100	**10000**		47	100	**940**		47	100	**470**		47	100	**470**		47	100	<47	U	47	100	<47	U	47	100
Iron, dissolved	**170**		47	100	**610**		47	100	**7400**		47	100	**870**		47	100	**170**		47	100	**170**		47	100	<47	U	47	100	<47	U	47	100
Manganese	**30**		6.2	10	**12**		6.2	10	**390**		6.2	10	**250**	J	6.2	10	**28**		6.2	10	**28**		6.2	10	<6.2	U	6.2	10	<6.2	U	6.2	10
Field Measurements																																
Dissolved Oxygen (mg/L)	0.34		0.01	0.01	0.42		0.01	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oxidation Reduction Potential (mV)	-108.8		0.1	0.1	-139.4		0.1	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (S.U.)	6.98		0.01	0.01	7.07		0.01	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Specific Conductance (uS/cm)	1612		0.1	0.1	1302		0.1	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (Degrees Celsius)	16.1		0.01	0.01	16.5		0.01	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity (NTU)	9.91		0.1	0.1	71.24		0.1	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes
< = Less than or equal to reporting MDL
NS = Not sampled, insufficient water
mV = Millivolt
S.U. = Standard Unit
uS/cm = MicroSiemen per centimeter
NTU = Nephelometric Turbidity Unit
Bold font = Detected concentration

Laboratory Data Qualifiers (Qual):
U = The analyte was not detected above the level of the sample reporting limit.
J = Quantitation is approximate due to limitations identified during data validation.
UJ = The anlyte was not detected; the reporting limit is approximate and may be inaccurate or imprecise.
J+ = The result is an estimated quanity; the result may be biased high.
J-= The result is an estimated quanity; the result may be biased low.

Table 1
Summary of Corrective Action Monitoring Data
2022 1st Semi-Annual Monitoring Event (April 18-22, May 23, and June 22, 2022)
Chesapeake Energy Center Industrial Landfill - Permit #440
Chesapeake, Virginia

Surface Water

Sample ID:	SW-1				SW-2				SW-3				SW-4				SW-2 DUP				SW-3 DUP				FIELD BLANK				FIELD BLANK			
Sample Date:	4/19/2022, 6/22/2022				4/19/2022, 6/22/2022				4/19/2022, 6/22/2022				4/19/2022, 6/22/2022				4/19/2022				6/22/2022				4/19/2022				6/22/2022			
Parameter Name	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**
Primary Constituents (µg/L)																																
Antimony, total	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	--		--	--	<0.57	U	0.57	2.0	--		--	--
Antimony, dissolved*	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	<0.57	U	0.57	2.0	--		--	--	<0.57	U	0.57	2.0	--		--	--	--		--	--
Arsenic, total	**2.5**	J	0.75	5.0	**1.5**	J	0.75	5.0	**1.4**	J	0.75	5.0	**1.2**	J	0.75	5.0	**0.98**	J	0.75	5.0	--		--	--	<0.75	U	0.75	5.0	--		--	--
Arsenic, dissolved*	**1.9**	J	0.75	5.0	**1.9**	J	0.75	5.0	**1.8**	J	0.75	5.0	**1.8**	J	0.75	5.0	--		--	--	**1.6**	J	0.75	5.0	--		--	--	--		--	--
Arsenic III (dissolved)	<0.26	U	0.26	0.50	<0.26	U	0.26	0.50	**0.30**	J	0.26	0.50	<0.26	U	0.26	0.50	<0.26	U	0.26	0.50	--		--	--	<0.26	U	0.26	0.50	--		--	--
Arsenic V (dissolved)	**0.43**	J	0.35	0.50	**0.45**	J	0.35	0.50	<0.35	U	0.35	0.50	**0.50**		0.35	0.50	<0.35	U	0.35	0.50	--		--	--	<0.35	U	0.35	0.50	--		--	--
Beryllium, total	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	<0.62	U	0.62	1.0	--		--	--	<0.62	U	0.62	1.0	--		--	--
Boron, total*	**2300**	J-	57	100	**2000**	J-	57	100	**2100**	J-	57	100	**2200**	J-	57	100	--		--	--	**2200**	J-	57	100	--		--	--	<57	U	57	100
Boron, dissolved*	**2100**	J-	57	100	**2200**	J-	57	100	**2000**	J	57	100	**2400**	J-	57	100	--		--	--	**2600**	J	57	100	--		--	--	--		--	--
Cadmium, total*	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	--		--	--	<0.20	U	0.20	1.0	--		--	--	<0.20	U	0.20	1.0
Cadmium, dissolved*	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	--		--	--	<0.20	U	0.20	1.0	--		--	--	--		--	--
Chromium, total*	<2.5	U	2.5	5.0	<2.5	U	2.5	5.0	<2.5	U	2.5	5.0	<2.5	U	2.5	5.0	--		--	--	<2.5	U	2.5	5.0	--		--	--	<2.5	U	2.5	5.0
Chromium, dissolved*	<2.5	U	2.5	5.0	<2.5	U	2.5	5.0	<2.5	U	2.5	5.0	<2.5	U	2.5	5.0	--		--	--	<2.5	U	2.5	5.0	--		--	--	--		--	--
Chromium hexavalent, total*	**18**		5.0	5.0	**8**		5.0	5.0	**6**	J	5.0	5.0	<5.0	U	5.0	5.0	--		--	--	**24**	J	5.0	5.0	--		--	--	<5.0	U	5.0	5.0
Chromium hexavalent, dissolved*	<5.0	U	5.0	5.0	<5.0	U	5.0	5.0	<5.0	U	5.0	5.0	<5.0	U	5.0	5.0	--		--	--	<5.0	U	5.0	5.0	--		--	--	<5.0	U	5.0	5.0
Chromium trivalent, total*	<7.0	U	7.0	20	<7.0	U	7.0	20	<7.0	U	7.0	20	<7.0	U	7.0	20	--		--	--	<7.0	U	7.0	20	--		--	--	<7.0	U	7.0	20
Chromium trivalent, dissolved*	<7.0	U	7.0	20	<7.0	U	7.0	20	<7.0	U	7.0	20	<7.0	U	7.0	20	--		--	--	<7.0	U	7.0	20	--		--	--	--		--	--
Cobalt, total	**0.61**	J	0.19	1.0	**0.44**	J	0.19	1.0	**0.41**	J	0.19	1.0	**0.39**	J	0.19	1.0	**0.39**	J	0.19	1.0	--		--	--	<0.19	U	0.19	1.0	--		--	--
Copper, total*	**5.0**		1.7	2.0	**3.9**		1.7	2.0	**4.1**		1.7	2.0	**4.8**		1.7	2.0	--		--	--	**4.3**		1.7	2.0	--		--	--	<1.7	U	1.7	2.0
Copper, dissolved*	**2.9**		1.7	2.0	**4.0**		1.7	2.0	**4.4**		1.7	2.0	**4.2**		1.7	2.0	--		--	--	**4.9**		1.7	2.0	--		--	--	--		--	--
Lead, total*	**1.3**		0.45	1.0	**0.71**	J	0.45	1.0	**0.45**	J	0.45	1.0	**0.83**	J	0.45	1.0	--		--	--	**0.51**	J	0.45	1.0	--		--	--	<0.45	U	0.45	1.0
Lead, dissolved*	<0.45	U	0.45	1.0	<0.45	U	0.45	1.0	<0.45	U	0.45	1.0	<0.45	U	0.45	1.0	--		--	--	<0.45	U	0.45	1.0	--		--	--	--		--	--
Mercury, total*	<0.13	U	0.13	0.20	<0.13	U	0.13	0.20	<0.13	U	0.13	0.20	<0.13	U	0.13	0.20	--		--	--	<0.13	U	0.13	0.20	--		--	--	<0.13	U	0.13	0.20
Mercury, dissolved*	<0.13	U	0.13	0.20	<0.13	U	0.13	0.20	<0.13	U	0.13	0.20	<0.13	U	0.13	0.20	--		--	--	<0.13	U	0.13	0.20	--		--	--	<0.13	U	0.13	0.20
Nickel, total*	**1.5**	J	1.5	2.0	<1.5	U	1.5	2.0	<1.5	U	1.5	2.0	<1.5	U	1.5	2.0	--		--	--	<1.5	U	1.5	2.0	--		--	--	<1.5	U	1.5	2.0
Nickel, dissolved*	<1.5	U	1.5	2.0	<1.5	U	1.5	2.0	<1.5	U	1.5	2.0	<1.5	U	1.5	2.0	--		--	--	<1.5	U	1.5	2.0	--		--	--	--		--	--
Selenium, total	<0.89	U	0.89	5.0	<0.89	U	0.89	5.0	<0.89	U	0.89	5.0	<0.89	U	0.89	5.0	<0.89	U	0.89	5.0	--		--	--	<0.89	U	0.89	5.0	--		--	--
Selenium, dissolved*	<0.89	U	0.89	5.0	<0.89	U	0.89	5.0	<0.89	U	0.89	5.0	<0.89	U	0.89	5.0	--		--	--	<0.89	U	0.89	5.0	--		--	--	--		--	--
Silver, total*	<0.053	U	0.053	1.0	<0.053	U	0.053	1.0	<0.053	U	0.053	1.0	<0.053	U	0.053	1.0	--		--	--	<0.053	U	0.053	1.0	--		--	--	<0.053	U	0.053	1.0
Silver, dissolved*	<0.053	U	0.053	1.0	<0.053	U	0.053	1.0	<0.053	U	0.053	1.0	<0.053	U	0.053	1.0	--		--	--	<0.053	U	0.053	1.0	--		--	--	--		--	--
Sulfide	<2.1	U	2.1	3.0	<2.1	U	2.1	3.0	<2.1	U	2.1	3.0	<2.1	U	2.1	3.0	<2.1	U	2.1	3.0	--		--	--	<2.1	U	2.1	3.0	--		--	--
Thallium, total*	**0.31**	J	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	**0.47**	J	0.20	1.0	--		--	--	<0.20	U	0.20	1.0	--		--	--	<0.20	U	0.20	1.0
Thallium, dissolved*	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	--		--	--	<0.20	U	0.20	1.0	--		--	--	--		--	--
Zinc, total*	<16	U	16	20	<21	U	21	21	<15	U	15	20	<15	U	15	20	--		--	--	<15	U	15	20	--		--	--	<15	U	15	20
Zinc, dissolved*	<15	U	15	20	<17	U	17	20	<15	U	15	20	<15	U	15	20	--		--	--	**16**	J	15	20	--		--	--	--		--	--
beta-BHC	<0.0090	U	0.0090	0.049	<0.0095	U	0.0095	0.051	<0.0094	U	0.0094	0.051	<0.0093	U	0.0093	0.050	<0.0093	U	0.0093	0.050	--		--	--	<0.0089	U	0.0089	0.048	--		--	--
Performance Parameters (µg/L)																																
Iron, total	**470**		47	100	**470**		47	100	**390**		47	100	**350**		47	100	**570**		47	100	--		--	--	<47	U	47	100	--		--	--
Total Suspended Solids	**15**	J-	2.0	8.0	**9.7**	J	1.0	4.0	**11**	J-	1.0	4.0	**9.0**	J-	1.0	4.0	**14**	J	1.0	4.0	--		--	--	<1.0	UJ	1.0	4.0	--		--	--
Field Measurements																																
Dissolved Oxygen (mg/L)	9.54		0.01	0.01	9.72		0.01	0.01	9.80		0.01	0.01	9.66		0.01	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oxidation Reduction Potential (mV)	145.0		0.1	0.1	101.9		0.1	0.1	113.2		0.1	0.1	69.1		0.1	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (S.U.)	6.36		0.01	0.01	7.39		0.01	0.01	7.40		0.01	0.01	7.31		0.01	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Specific Conductance (uS/cm)	25960		0.1	0.1	27168		0.1	0.1	27228		0.1	0.1	28422		0.1	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (Degrees Celsius)	14.5		0.01	0.01	14.2		0.01	0.01	14.0		0.01	0.01	14.2		0.01	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity (NTU)	8.40		0.1	0.1	5.70		0.1	0.1	4.80		0.1	0.1	4.42		0.1	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes

< = Less than or equal to reporting MDL
NS = Not sampled, insufficient water
mV = Millivolt
S.U. = Standard Unit
* = Results from samples collected June 22, 2022
uS/cm = MicroSiemen per centimeter
NTU = Nephelometric Turbidity Unit
Bold font = Detected concentration

Laboratory Data Qualifiers (Qual):
U = The analyte was not detected above the level of the sample reporting limit.
J = Quantitation is approximate due to limitations identified during data validation.
UJ = The anlyte was not detected; the reporting limit is approximate and may be inaccurate or imprecise.
J+ = The result is an estimated quanity; the result may be biased high.
J-= The result is an estimated quanity; the result may be biased low.