

Table 1Q
Mass of Chemicals Placed in CAMU Unit 2
East Side Groundwater ISM Compliance Monitoring - Fourth Quarter 2017
U.S. Steel - Gary Works
Gary, Indiana

Parameter	Location ID	EL-MW-23D	EL-MW-23D	EL-MW-23S	EL-MW-29D	EL-MW-29S	EL-MW-32S	EL-MW-32D	EL-MW-41D	EL-MW-41S	EL-MW-42D	EL-MW-42D	EL-MW-42S
	Sample Type	Regular	Duplicate	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Duplicate	Regular
	Sample Date	11/29/2017	11/29/2017	11/29/2017	11/30/2017	11/30/2017	11/29/2017	11/29/2017	11/30/2017	11/30/2017	11/30/2017	11/30/2017	11/30/2017
	Units												
Volatile Organic Compounds (VOCs)													
Benzene	ug/l	920000.00	750000.00	7600.00	3600.00	680.00	1700.00	0.50	110.00	380.00	160.00	160.00	1200.00
Ethylbenzene	ug/l	1000.00	2500.00	10.00	5.00	1.00	2.50	0.50	0.50	0.66	0.50	0.50	2.50
m&p-Xylene	ug/l	2000.00	5000.00	20.00	10.00	2.00	5.00	1.00	1.00	1.90	1.00	1.00	5.00
o-Xylene	ug/l	1000.00	2500.00	10.00	5.00	1.00	2.50	0.50	0.50	0.97	0.50	0.50	2.50
Toluene	ug/l	5100.00	5600.00	110.00	5.00	1.00	2.50	0.50	1.50	1.20	2.30	2.50	2.40
Xylenes (total)	ug/l	3000.00	7500.00	30.00	15.00	3.00	7.50	1.50	1.50	2.80	1.50	1.50	7.50

Table 1Q
Mass of Chemicals Placed in CAMU Unit 2
East Side Groundwater ISM Compliance Monitoring - Fourth Quarter 2017
U.S. Steel - Gary Works
Gary, Indiana

Parameter	Location ID	EL-MW-43D	EL-MW-43S	EL-MW-44D	EL-MW-44S	EL-MW-45D	EL-MW-45S	EL-MW-46D	EL-MW-46S	EL-MW-47D	EL-MW-47S	EL-MW-47S	EL-MW-48D
	Sample Type	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Duplicate	Regular
	Sample Date	12/4/2017	12/4/2017	11/29/2017	12/1/2017	12/1/2017	12/1/2017	12/1/2017	12/1/2017	12/1/2017	12/1/2017	12/1/2017	12/1/2017
	Units												
Volatile Organic Compounds (VOCs)													
Benzene	ug/l	140.00	750.00	740.00	820.00	270000.00	0.50	36.00	0.50	1100.00	89.00	98.00	440.00
Ethylbenzene	ug/l	0.50	6.20	1.00	1.00	50.00	0.50	0.50	0.50	0.50	0.50	0.50	0.50
m&p-Xylene	ug/l	1.00	140.00	2.00	2.60	100.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
o-Xylene	ug/l	0.50	38.00	1.00	1.40	50.00	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Toluene	ug/l	0.91	270.00	7.70	3.30	50.00	0.50	0.76	0.50	1.60	0.50	0.50	6.20
Xylenes (total)	ug/l	1.50	170.00	3.00	4.00	150.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50

Table 1Q
Mass of Chemicals Placed in CAMU Unit 2
East Side Groundwater ISM Compliance Monitoring - Fourth Quarter 2017
U.S. Steel - Gary Works
Gary, Indiana

Parameter	Location ID	EL-MW-48S	EL-MW-49D	EL-MW-49S	EL-MW-50D	EL-MW-50S	EL-MW-51D	EL-MW-51S	EL-MW-SG375D	EL-MW-SG375S	EL-MW-SG380RD	EL-MW-SG380RS
	Sample Type	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular
	Sample Date	12/1/2017	11/29/2017	11/29/2017	11/30/2017	11/30/2017	11/29/2017	11/29/2017	12/1/2017	12/1/2017	12/1/2017	12/1/2017
	Units											
Volatile Organic Compounds (VOCs)												
Benzene	ug/l	8.20	18.00	1300.00	75.00	100.00	15.00	3500.00	2.9	590.00	0.50	77
Ethylbenzene	ug/l	0.50	0.50	2.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50
m&p-Xylene	ug/l	1.00	1.00	5.00	1.00	1.00	1.00	10.00	1.00	1.00	1.00	1.00
o-Xylene	ug/l	0.50	0.50	2.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50
Toluene	ug/l	0.50	0.50	2.50	1.30	0.50	0.50	5.00	0.50	0.76	0.50	0.50
Xylenes (total)	ug/l	1.50	1.50	7.50	1.50	1.50	1.50	15.00	1.50	1.50	1.50	1.50

Table 1Q
Mass of Chemicals Placed in CAMU Unit 2
East Side Groundwater ISM Compliance Monitoring - Fourth Quarter 2017
U.S. Steel - Gary Works
Gary, Indiana

Parameter	Location ID	EL-MW-SG420D	EL-MW-SG420S	Median Concentration	Median Concentration	Mass of Chemicals in ISM Purge Water Placed in CAMU Unit 2 (Based on Median Concentration)		
	Sample Type	Regular	Regular					
	Sample Date	11/30/2017	11/30/2017					
	Units					mg/L	Milligrams	Kilograms
Volatile Organic Compounds (VOCs)								
Benzene	ug/l	0.50	390.00	380	0.38	85.40	8.54E-05	1.88E-04
Ethylbenzene	ug/l	0.50	0.50	0.5	0.0005	0.11	1.12E-07	2.47E-07
m&p-Xylene	ug/l	2.40	1.00	1.0	0.001	0.22	2.25E-07	4.94E-07
o-Xylene	ug/l	0.50	0.50	0.5	0.0005	0.11	1.12E-07	2.47E-07
Toluene	ug/l	0.50	0.52	1.2	0.0012	0.27	2.70E-07	5.93E-07
Xylenes (total)	ug/l	2.40	1.50	1.5	0.0015	0.34	3.37E-07	7.42E-07

Table 1Q
Mass of Chemicals Placed in CAMU Unit 2
East Side Groundwater ISM Compliance Monitoring - Fourth Quarter 2017
U.S. Steel - Gary Works
Gary, Indiana

Notes:

ug/L = micrograms per liter

Bold font indicates positive detection

Italics and shading indicate a non-detect result; one-half the reporting limit was used for non-detect results

Blank cell indicates that analysis for the parameter was not required.

Samples collected on November 29 - December 4, 2017.

Per TRI Reporting guidance, the median value is used when a range of data values is present.

Volume of purge water place in CAMU = 74.91 gallons

Volume of purge water placed in CAMU (liters): (74.91 gal)(3.79 liter/gal) = 224.73 liters

Mass of individual chemicals placed in CAMU = (concentration)(volume of purge water)