

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

Parameter	Location ID	EL-MW-23D	EL-MW-23S	EL-MW-32S	EL-MW-32S	EL-MW-32D	EL-MW-41D	EL-MW-41S	EL-MW-42D	EL-MW-42S	EL-MW-43D	EL-MW-43S	EL-MW-44D
	Sample Type	Regular	Regular	Duplicate	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular
	Sample Date	03/13/17	03/13/17	03/13/17	03/13/17	03/13/17	03/13/17	03/13/17	03/13/17	03/13/17	03/13/17	03/16/17	03/16/17
	Units												
Volatile Organic Compounds (VOCs)													
Benzene	ug/l	1,300,000	42,000	2,100	1,000	1.6	140	440	270	1,100	2,800	700	1,500
Ethylbenzene	ug/l	500.00	100.00	5.00	2.50	0.50	0.50	1.00	0.50	2.50	5.00	7.4	2.50
m&p-Xylene	ug/l	1000.00	200.00	10.00	5.00	1.00	1.00	2.00	1.00	5.00	10.00	170	5.00
o-Xylene	ug/l	500.00	100.00	5.00	2.50	0.50	0.50	0.96	0.50	2.50	5.00	45	2.50
Toluene	ug/l	10,000	410	5.00	2.50	0.50	1.9	0.94	3.9	3.1	5.00	280	13
Xylenes (total)	ug/l	1500.00	300.00	15.00	7.50	1.50	1.50	3.00	1.50	7.50	15.00	210	7.50

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Parameter	Location ID	EL-MW-44S	EL-MW-44S	EL-MW-45D	EL-MW-45S	EL-MW-46D	EL-MW-46S	EL-MW-47D	EL-MW-47S	EL-MW-48D	EL-MW-48S	EL-MW-49D	EL-MW-49S
	Sample Type	Duplicate	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular
	Sample Date	03/13/17	03/13/17	03/16/17	03/16/17	03/15/17	03/15/17	03/15/17	03/15/17	03/15/17	03/15/17	03/10/17	03/10/17
	Units												
Volatile Organic Compounds (VOCs)													
Benzene	ug/l	1,200	910	360,000	2.3	51	0.50	1,100	190	82	0.50	630	160
Ethylbenzene	ug/l	2.50	2.50	500.00	0.50	0.50	0.50	2.50	0.50	0.50	0.50	2.50	0.50
m&p-Xylene	ug/l	5.00	5.00	1000.00	1.00	1.00	1.00	5.00	1.00	1.00	1.00	5.00	1.00
o-Xylene	ug/l	2.50	2	500.00	0.50	0.50	0.50	2.50	0.50	0.50	0.50	2.50	0.50
Toluene	ug/l	3.1	3.8	500.00	0.50	1.2	0.50	2.50	0.58	0.95	0.50	2.50	0.50
Xylenes (total)	ug/l	7.50	7.50	1500.00	1.50	1.50	1.50	7.50	1.50	1.50	1.50	7.50	1.50

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Parameter	Location ID	EL-MW-50D	EL-MW-50S	EL-MW-51D	EL-MW-51S	EL-MW-SG375D	EL-MW-SG375D	EL-MW-SG375S	EL-MW-SG380D
	Sample Type	Regular	Regular	Regular	Regular	Duplicate	Regular	Regular	Regular
	Sample Date	03/15/17	03/15/17	03/10/17	03/10/17	03/15/17	03/15/17	03/15/17	03/15/17
	Units								
Volatile Organic Compounds (VOCs)									
Benzene	ug/l	270	45	66	8,800	0.50	0.50	0.61	0.50
Ethylbenzene	ug/l	0.50	0.50	0.50	12.50	0.50	0.50	0.50	0.50
m&p-Xylene	ug/l	1.00	1.00	1.00	25.00	1.00	1.00	1.00	1.00
o-Xylene	ug/l	0.50	0.50	0.50	12.50	0.50	0.50	0.50	0.50
Toluene	ug/l	4	0.50	0.50	12.50	0.50	0.50	0.50	0.50
Xylenes (total)	ug/l	1.50	1.50	1.50	37.50	1.50	1.50	1.50	1.50

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Parameter	Location ID	EL-MW-SG380S	EL-MW-SG420D	EL-MW-SG420S	RWL-1S	RWL-2S	Median Concentration	Median Concentration	Mass of Chemicals in ISM Purge Water Placed in CAMU Unit 2 (Based on Median Concentration)		
	Sample Type	Regular	Regular	Regular	Regular	Regular					
	Sample Date	03/15/17	03/16/17	03/16/17	03/09/17	03/09/17					
	Units							mg/L	Milligrams	Kilograms	Pounds
Volatile Organic Compounds (VOCs)											
Benzene	ug/l	18	0.62	190	8.2	42	190	0.19	70.48	7.05E-05	1.55E-04
Ethylbenzene	ug/l	0.50	0.50	0.50	0.50	0.50	0.5	0.0005	0.19	1.85E-07	4.08E-07
m&p-Xylene	ug/l	1.00	1.00	1.00	1.00	1.00	1.0	0.001	0.37	3.71E-07	8.16E-07
o-Xylene	ug/l	0.50	0.50	0.50	0.50	0.50	0.5	0.0005	0.19	1.85E-07	4.08E-07
Toluene	ug/l	0.50	0.50	0.50	0.50	0.50	1.0	0.00095	0.35	3.52E-07	7.75E-07
Xylenes (total)	ug/l	1.50	1.50	1.50	1.50	1.50	1.5	0.0015	0.56	5.56E-07	1.22E-06

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Notes:

mg/l = milligrams per liter

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 March 10 - 17, 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 = 97.87 gallons

Volume of purge water placed in CAMU (liters): (97.87 gal)(3.79 liter/gal) = 370.93 liters

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