



US Army Corps
of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
September 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
9/1/14 12:00 AM	187.00	3.90	77.70	22.40	0.00	22.40	41.50	77.70	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 12:15 AM	190.00	3.80	74.70	21.60	0.00	21.60	38.50	74.70	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 12:30 AM	183.00	3.70	73.30	21.20	0.00	21.20	37.50	73.30	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 12:45 AM	203.00	3.00	76.90	20.60	0.00	20.60	38.20	76.90	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 1:00 AM	204.00	4.00	77.50	18.40	0.00	18.40	36.50	77.50	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 1:15 AM	210.00	3.90	77.90	16.60	0.00	16.60	35.00	77.90	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 1:30 AM	199.00	3.20	72.20	15.10	0.00	15.10	31.70	72.20	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 1:45 AM	195.00	4.30	69.20	14.00	0.00	14.00	29.90	69.20	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 2:00 AM	207.00	3.90	65.90	13.60	0.00	13.60	28.50	65.90	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 2:15 AM	193.00	4.60	62.60	13.10	0.00	13.10	27.20	62.60	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 2:30 AM	201.00	4.10	62.10	12.90	0.00	12.90	26.70	62.10	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 2:45 AM	189.00	3.80	65.90	12.30	0.00	12.30	26.70	65.90	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 3:00 AM	182.00	5.40	67.80	12.10	0.00	12.10	26.80	67.80	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 3:15 AM	202.00	5.00	76.20	12.00	0.00	12.00	26.90	76.20	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 3:30 AM	192.00	3.70	82.90	11.60	0.00	11.60	26.70	82.90	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 3:45 AM	189.00	4.60	86.80	11.40	0.00	11.40	26.80	86.80	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 4:00 AM	179.00	4.20	26.50	5.50	0.00	11.30	26.50	87.30	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 4:15 AM	190.00	3.50	82.30	11.20	0.00	11.20	25.70	82.30	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 4:30 AM	183.00	3.60	76.90	11.00	0.00	11.00	24.40	76.90	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 4:45 AM	180.00	5.50	74.80	10.70	0.00	10.70	24.20	74.80	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 5:00 AM	192.00	4.70	73.70	11.00	0.00	11.00	24.60	73.70	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 5:15 AM	172.00	4.20	23.30	4.90	0.00	10.40	23.30	72.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 5:30 AM	170.00	5.50	22.20	5.00	0.00	10.40	22.20	63.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 5:45 AM	178.00	4.90	21.50	4.90	0.00	9.90	21.50	59.80	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 6:00 AM	182.00	4.30	60.80	9.80	0.00	9.80	21.10	60.80	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 6:15 AM	208.00	5.30	62.80	9.70	0.00	9.70	21.10	62.80	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 6:30 AM	205.00	4.30	68.50	9.70	0.00	9.70	21.80	68.50	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 6:45 AM	188.00	4.70	70.00	9.50	0.00	9.50	22.80	70.00	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 7:15 AM	174.00	5.30	24.00	6.10	0.00	11.00	24.00	77.60	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 7:30 AM	173.00	5.40	24.70	6.30	0.00	11.60	24.70	78.00	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 7:45 AM	191.00	6.00	79.50	12.00	0.00	12.00	27.50	79.50	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 8:00 AM	187.00	4.50	79.90	12.70	0.00	12.70	27.50	79.90	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 8:15 AM	199.00	7.30	80.20	13.50	0.00	13.50	28.00	80.20	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 8:30 AM	189.00	7.70	69.20	14.40	0.00	14.40	27.60	69.20	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 8:45 AM	196.00	4.50	65.80	14.90	0.00	14.90	27.90	65.80	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 9:00 AM	195.00	8.50	62.90	15.60	0.00	15.60	30.30	62.90	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 9:15 AM	188.00	6.60	60.90	16.30	0.00	16.30	30.70	60.90	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 9:30 AM	192.00	7.70	60.20	17.30	0.00	17.30	33.20	60.20	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 9:45 AM	208.00	6.90	59.10	18.40	0.00	18.40	33.50	59.10	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 10:00 AM	191.00	6.80	58.10	18.00	0.00	18.00	33.20	58.10	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 10:15 AM	194.00	6.90	44.50	18.10	0.00	18.10	29.80	44.50	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 10:30 AM	210.00	4.40	35.00	19.20	0.00	19.20	28.60	35.00	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 10:45 AM	212.00	5.50	32.90	18.90	0.00	18.90	28.20	32.90	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 11:00 AM	230.00	4.70	27.80	19.90	0.00	19.90	27.60	27.80	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 11:15 AM	239.00	6.70	20.30	19.90	0.00	19.90	26.20	20.30	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 11:30 AM	216.00	4.80	17.20	19.60	2.40	19.60	25.10	17.20	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 11:45 AM	208.00	5.80	14.70	19.90	5.20	19.90	24.60	14.70	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 12:00 PM	242.00	6.20	13.90	20.20	6.30	20.20	24.30	13.90	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 12:15 PM	225.00	5.10	14.40	20.70	6.30	20.70	24.70	14.40	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 12:30 PM	214.00	6.90	11.20	19.80	8.60	19.80	22.40	11.20	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 12:45 PM	236.00	6.00	10.30	18.50	8.20	18.50	20.50	10.30	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 1:00 PM	240.00	8.30	6.80	17.80	11.00	17.80	17.40	6.80	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 1:15 PM	252.00	5.50	4.70	16.20	11.50	16.20	12.50	4.70	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 1:30 PM	229.00	7.50	3.60	15.60	12.00	15.60	6.90	3.60	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 1:45 PM	229.00	7.40	2.70	14.20	11.50	14.20	5.10	2.70	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 2:00 PM	254.00	7.40	1.90	12.30	10.40	12.30	3.40	1.90	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 2:15 PM	234.00	6.80	1.70	13.20	11.50	13.20	3.40	1.70	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 2:30 PM	237.00	8.10	1.20	12.00	10.80	12.00	2.40	1.20	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 2:45 PM	233.00	6.90	1.30	11.50	10.20	11.50	2.00	1.30	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 3:00 PM	252.00	4.70	1.10	11.20	10.10	11.20	1.40	1.10	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 3:15 PM	247.00	6.80	1.40	12.00	10.60	12.00	1.20	1.40	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 3:30 PM	217.00	6.90	1.40	12.00	10.60	12.00	1.30	1.40	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 3:45 PM	218.00	6.30	0.00	8.30	8.30	0.50	0.00	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 4:00 PM	234.00	6.50	0.10	8.30	8.20	0.30	0.50	0.10	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 4:15 PM	247.00	7.40	0.20	7.40	7.20	0.40	0.50	0.20	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 4:30 PM	241.00	7.10	0.00	7.30	7.30	0.30	0.40	0.00	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 4:45 PM	248.00	7.00	0.00	6.20	6.20	0.20	0.20	0.00	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 5:00 PM	225.00	7.30	0.00	6.50	6.50	0.50	0.20	0.00	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 5:15 PM	233.00	6.10	0.00	6.20	6.20	0.20	0.00	0.00	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/14 5:30 PM	232.00	7.00	0.00	5.90	5.90	0.20										



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
9/3/14 2:45 AM	234.00	1.10	22.50	17.00	0.00	17.00	20.80	22.50	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 3:00 AM	235.00	1.50	23.40	16.00	0.00	16.00	20.20	23.40	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 3:15 AM	233.00	1.20	22.60	16.40	0.00	16.40	21.20	22.60	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 3:30 AM	215.00	1.80	22.90	16.90	0.00	16.90	23.20	22.90	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 3:45 AM	229.00	1.40	21.50	17.20	0.00	17.20	26.80	21.50	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 4:00 AM	225.00	1.90	25.50	18.70	0.00	18.70	30.40	25.50	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 4:15 AM	224.00	1.90	25.60	21.50	0.00	21.50	32.80	25.60	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 4:30 AM	227.00	1.60	32.80	22.40	0.00	22.40	34.20	32.80	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 4:45 AM	236.00	1.60	34.80	22.50	0.00	22.50	34.20	34.80	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 5:00 AM	247.00	1.80	36.30	20.70	0.00	20.70	36.50	36.30	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 5:15 AM	238.00	2.20	38.60	22.00	0.00	22.00	40.90	38.60	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 5:30 AM	230.00	2.00	40.70	24.20	0.00	24.20	40.50	40.70	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 5:45 AM	225.00	1.90	41.50	22.20	0.00	22.20	39.50	41.50	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 6:00 AM	230.00	2.10	39.00	22.10	0.00	22.10	39.30	39.00	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 6:15 AM	0.00	0.00	0.00	0.00	0.00	0.00	23.30	44.40	37.00	11.60	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 6:30 AM	219.00	1.70	41.60	24.60	0.00	24.60	46.40	41.60	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 6:45 AM	233.00	1.60	48.50	24.80	0.00	24.80	46.40	48.50	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 7:00 AM	221.00	2.20	52.90	29.60	0.00	29.60	48.30	52.90	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 7:15 AM	231.00	1.70	49.40	33.90	0.00	33.90	47.80	49.40	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 7:30 AM	220.00	1.80	49.90	32.40	0.00	32.40	46.70	49.90	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 7:45 AM	223.00	1.30	48.70	33.10	0.00	33.10	46.90	48.70	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 8:00 AM	241.00	1.20	42.50	32.20	0.00	32.20	45.70	42.50	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 8:15 AM	239.00	1.20	39.80	32.30	0.00	32.30	40.40	39.80	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 8:30 AM	243.00	1.70	37.00	32.40	0.00	32.40	38.70	37.00	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 8:45 AM	238.00	1.50	36.00	33.10	0.00	33.10	36.80	36.00	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 9:00 AM	269.00	1.10	33.30	35.40	2.10	35.40	33.40	33.30	25.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 9:15 AM	275.00	1.00	24.30	31.70	7.40	53.70	31.70	28.30	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 9:30 AM	241.00	1.40	28.20	39.10	10.90	39.10	28.20	28.20	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 9:45 AM	226.00	2.30	14.20	26.30	12.10	26.30	22.10	14.20	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 10:00 AM	281.00	2.70	12.50	15.30	2.80	19.70	15.30	7.20	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 10:15 AM	283.00	2.00	11.00	9.20	0.00	26.30	9.20	5.80	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 10:30 AM	224.00	1.40	6.30	18.50	12.20	18.50	10.10	6.30	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 10:45 AM	223.00	2.60	5.80	17.30	11.50	17.30	8.80	5.80	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 11:00 AM	187.00	2.10	4.10	19.90	15.80	19.90	14.70	4.10	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 11:15 AM	240.00	2.30	3.60	13.20	9.60	13.20	4.20	3.60	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 11:30 AM	226.00	3.80	4.10	16.90	12.80	16.90	5.80	4.10	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 11:45 AM	252.00	4.20	4.80	13.60	8.80	13.60	8.10	4.80	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 12:00 PM	207.00	2.90	4.70	13.30	8.60	13.30	5.00	4.70	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 12:15 PM	241.00	4.10	4.20	13.70	9.50	13.70	4.00	4.20	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 12:30 PM	289.00	3.30	5.00	4.40	0.00	12.60	4.40	3.80	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 12:45 PM	246.00	6.60	3.90	10.80	6.90	10.80	1.70	3.90	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 1:00 PM	287.00	4.40	5.60	3.00	0.00	10.40	3.00	4.70	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 1:15 PM	267.00	3.90	2.90	9.00	6.10	9.00	1.40	2.90	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 1:30 PM	280.00	3.70	3.80	1.20	0.00	8.30	1.20	3.00	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 1:45 PM	252.00	4.60	3.70	9.30	5.60	9.30	1.30	3.70	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 2:00 PM	230.00	4.50	4.60	9.80	5.20	9.80	2.20	4.60	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 2:15 PM	181.00	2.20	5.00	10.80	5.80	10.80	3.70	5.00	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 2:30 PM	271.00	3.40	6.90	3.70	0.00	11.80	3.70	5.60	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 2:45 PM	219.00	2.40	5.90	12.40	6.50	12.40	5.20	5.90	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 3:00 PM	245.00	4.20	6.70	14.40	7.70	14.40	5.70	6.70	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 3:15 PM	229.00	4.00	7.10	13.80	6.70	13.80	4.70	7.10	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 3:30 PM	190.00	3.80	7.70	15.60	7.90	15.60	6.30	7.70	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 3:45 PM	186.00	3.80	7.60	13.80	6.20	13.80	6.00	7.60	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 4:00 PM	187.00	3.30	7.60	13.30	5.70	13.30	8.50	7.60	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 4:15 PM	216.00	4.20	7.40	12.20	4.80	12.20	6.00	7.40	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 4:30 PM	188.00	5.80	8.10	11.20	3.10	11.20	5.20	8.10	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 4:45 PM	190.00	3.80	8.40	11.50	3.10	11.50	4.70	8.40	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 5:00 PM	204.00	4.50	8.30	11.80	3.50	11.80	4.80	8.30	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 5:15 PM	198.00	5.30	9.80	12.60	2.80	12.60	6.30	9.80	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 5:30 PM	168.00	4.90	6.20	6.30	0.10	12.10	6.20	9.70	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 5:45 PM	188.00	3.50	10.40	12.90	2.50	12.90	6.80	10.40	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 6:00 PM	199.00	4.40	11.70	15.10	3.40	15.10	9.10	11.70	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 6:15 PM	187.00	4.50	25.70	14.70	0.00	14.70	18.50	25.70	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 6:30 PM	195.00	4.90	15.80	14.90	0.00	14.90	17.50	15.80	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 6:45 PM	207.00	2.90	15.90	14.10	0.00	14.10	12.20	15.90	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 7:00 PM	189.00	2.40	15.80	13.40	0.00	13.40	12.20	15.80	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 7:15 PM	181.00	3.90	15.20	13.10	0.00	13.10	12.30	15.20	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 7:30 PM	185.00	4.20	14.70	14.20	0.00	14.20	12.00	14.70	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 7:45 PM	182.00	3.10	15.90	15.20	0.00	15.20	13.00	15.90	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/3/14 8:00 PM	182.00	4.10	17.10	16.80	0.00	16.80	15.50	17.10	4.90									



US Army Corps
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Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
September 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
9/4/14 4:00 AM	202.00	6.80	28.00	17.80	0.00	17.80	23.70	28.00	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 4:15 AM	200.00	5.40	28.90	17.10	0.00	17.10	24.50	28.90	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 4:30 AM	201.00	4.50	30.20	18.60	0.00	18.60	26.20	30.20	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 4:45 AM	199.00	5.30	27.80	17.70	0.00	17.70	24.10	27.80	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 5:00 AM	196.00	5.30	25.90	16.70	0.00	16.70	22.50	25.90	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 5:15 AM	199.00	6.00	26.10	16.90	0.00	16.90	22.50	26.10	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 5:30 AM	190.00	6.40	26.40	16.90	0.00	16.90	22.30	26.40	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 5:45 AM	202.00	4.30	26.00	16.70	0.00	16.70	22.20	26.00	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 6:00 AM	206.00	7.10	25.60	17.50	0.00	17.50	22.40	25.60	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 6:15 AM	199.00	5.70	25.20	17.20	0.00	17.20	22.60	25.20	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 6:30 AM	198.00	6.20	26.20	17.40	0.00	17.40	22.10	26.20	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 6:45 AM	195.00	6.40	27.00	17.20	0.00	17.20	22.50	27.00	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 7:00 AM	220.00	6.90	27.60	17.20	0.00	17.20	23.20	27.60	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 7:15 AM	201.00	5.30	27.90	17.40	0.00	17.40	23.40	27.90	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 7:30 AM	205.00	6.80	27.60	17.50	0.00	17.50	23.30	27.60	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 7:45 AM	211.00	5.00	27.70	17.70	0.00	17.70	24.20	27.70	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 8:00 AM	307.00	4.40	10.40	24.50	14.10	18.60	24.50	28.20	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 8:15 AM	263.00	2.80	28.20	19.20	0.00	19.20	24.20	28.20	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 8:30 AM	264.00	0.80	29.40	19.00	0.00	19.00	25.70	29.40	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 8:45 AM	231.00	2.60	31.50	20.60	0.00	20.60	26.60	31.50	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 9:00 AM	200.00	3.40	35.30	27.60	0.00	27.60	33.70	35.30	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 9:15 AM	230.00	1.40	43.40	26.40	0.00	26.40	41.10	43.40	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 9:30 AM	155.00	1.20	41.00	17.70	0.00	27.90	41.00	45.70	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 9:45 AM	25.00	0.70	28.40	47.90	19.50	28.40	42.50	47.90	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 10:00 AM	123.00	2.70	43.30	16.60	0.00	25.40	43.30	54.30	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 10:15 AM	157.00	1.60	43.70	17.90	0.00	27.10	43.70	51.60	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 10:30 AM	177.00	1.50	46.10	19.10	0.00	27.50	46.10	61.70	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 10:45 AM	219.00	2.30	76.70	27.40	0.00	27.40	51.50	76.70	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 11:00 AM	204.00	3.50	101.60	31.10	0.00	31.10	61.30	101.60	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 11:15 AM	216.00	3.50	145.20	37.20	0.00	37.20	70.20	145.20	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 11:30 AM	218.00	3.80	158.10	35.00	0.00	35.00	76.30	158.10	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 11:45 AM	200.00	4.80	180.90	37.90	0.00	37.90	70.90	180.90	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 12:00 PM	197.00	5.30	130.30	32.60	0.00	32.60	65.10	130.30	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 12:15 PM	213.00	6.80	118.70	28.10	0.00	28.10	58.10	118.70	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 12:30 PM	203.00	8.20	142.60	30.80	0.00	30.80	64.80	142.60	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 12:45 PM	190.00	4.90	147.90	28.80	0.00	28.80	65.20	147.90	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 1:00 PM	185.00	7.10	149.40	27.20	0.00	27.20	64.70	149.40	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 1:15 PM	188.00	8.50	102.20	23.30	0.00	23.30	45.90	102.20	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 1:30 PM	199.00	7.30	52.20	18.90	0.00	18.90	35.60	52.20	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 1:45 PM	220.00	5.60	26.70	15.90	0.00	15.90	19.20	26.70	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 2:00 PM	206.00	3.80	11.40	10.40	0.00	10.40	12.70	11.40	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 2:15 PM	213.00	3.80	10.30	10.80	0.50	10.80	11.80	10.30	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 2:30 PM	222.00	4.70	11.10	10.80	0.00	10.80	11.50	11.10	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 2:45 PM	220.00	4.50	6.90	10.00	3.10	10.00	8.70	6.90	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 3:00 PM	203.00	6.40	6.20	9.40	3.20	9.40	6.40	6.20	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 3:15 PM	207.00	6.70	6.70	9.60	2.90	9.60	6.20	6.70	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 3:30 PM	202.00	6.40	5.50	8.90	3.40	8.90	5.50	5.50	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 3:45 PM	199.00	4.70	5.10	9.30	4.20	9.30	5.80	5.10	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 4:00 PM	197.00	5.00	4.70	10.00	5.30	10.00	6.20	4.70	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 4:15 PM	201.00	5.50	4.50	10.10	5.60	10.10	6.10	4.50	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 4:30 PM	198.00	4.60	8.40	10.60	2.20	10.60	8.10	8.40	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 4:45 PM	192.00	5.70	11.00	11.60	0.60	11.60	7.90	11.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 5:00 PM	207.00	4.50	9.60	13.10	3.50	13.10	9.90	9.60	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 5:15 PM	196.00	7.40	6.70	13.50	6.80	13.50	8.60	6.70	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 5:30 PM	188.00	5.20	6.40	14.00	7.60	14.00	8.40	6.40	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 5:45 PM	181.00	3.70	5.40	11.70	6.30	11.70	4.90	5.40	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 6:00 PM	186.00	6.30	1.60	11.90	10.30	11.90	3.90	1.60	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 6:15 PM	174.00	5.50	3.10	5.80	2.70	11.50	3.10	1.10	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 6:30 PM	185.00	7.10	1.50	12.10	10.60	12.10	3.00	1.50	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 6:45 PM	183.00	5.40	1.80	12.90	11.10	12.90	3.50	1.80	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 7:00 PM	189.00	4.80	2.20	15.20	13.00	15.20	4.40	2.20	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 7:15 PM	178.00	3.70	5.00	9.50	4.50	14.90	5.00	2.60	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 7:30 PM	176.00	1.50	6.90	9.70	2.80	16.10	6.90	3.10	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 7:45 PM	166.00	3.80	9.20	9.50	0.30	17.60	9.20	6.30	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 8:00 PM	163.00	3.20	11.30	10.50	0.00	18.20	11.30	10.90	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 8:15 PM	157.00	3.50	14.20	10.70	0.00	20.40	14.20	18.30	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 8:30 PM	167.00	3.00	17.50	11.40	0.00	19.80	17.50	28.00	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 8:45 PM	167.00	4.00	20.70	12.60	0.00	21.20	20.70	40.60	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 9:00 PM	0.00	0.00	0.00	0.00	0.00	23.10	24.20	53.30	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/14 9:15 PM	175.00	5.70	27.30	13.30</												



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Real-Time Air Monitoring Data
September 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
9/5/14 5:15 AM	210.00	4.30	60.30	23.20	0.00	23.20	29.90	60.30	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 5:30 AM	215.00	4.00	56.70	23.00	0.00	23.00	31.40	56.70	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 5:45 AM	209.00	3.20	61.50	23.80	0.00	23.80	32.70	61.50	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 6:00 AM	211.00	4.20	61.50	23.70	0.00	23.70	33.70	61.50	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 6:15 AM	208.00	4.80	73.50	23.40	0.00	23.40	34.70	73.50	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 6:30 AM	204.00	4.50	82.20	23.00	0.00	23.00	35.50	82.20	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 6:45 AM	204.00	4.50	85.00	22.00	0.00	22.00	35.30	85.00	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 7:00 AM	210.00	4.60	85.40	22.80	0.00	22.80	35.20	85.40	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 7:15 AM	214.00	4.00	85.20	22.00	0.00	22.00	36.60	85.20	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 7:30 AM	209.00	4.30	88.60	23.10	0.00	23.10	37.30	88.60	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 7:45 AM	210.00	5.10	92.90	23.20	0.00	23.20	38.70	92.90	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 8:00 AM	214.00	4.90	94.70	23.30	0.00	23.30	38.80	94.70	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 8:15 AM	206.00	5.90	91.30	23.50	0.00	23.50	36.50	91.30	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 8:30 AM	210.00	3.70	74.40	22.10	0.00	22.10	31.50	74.40	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 8:45 AM	223.00	4.60	60.30	21.40	0.00	21.40	27.60	60.30	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 9:00 AM	233.00	5.60	46.40	21.40	0.00	21.40	23.20	46.40	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 9:15 AM	216.00	5.60	31.20	21.10	0.00	21.10	21.80	31.20	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 9:30 AM	214.00	6.50	20.70	19.70	0.00	19.70	19.10	20.70	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 9:45 AM	226.00	5.80	14.70	18.80	4.10	18.80	16.30	14.70	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 10:00 AM	223.00	5.70	11.30	18.50	7.20	18.50	13.50	11.30	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 10:15 AM	201.00	5.00	5.80	18.20	12.40	18.20	11.70	5.80	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 10:30 AM	213.00	4.50	5.10	18.20	13.10	18.20	10.40	5.10	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 10:45 AM	227.00	7.00	4.90	18.10	13.20	18.10	10.10	4.90	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 11:00 AM	220.00	6.00	4.90	17.70	12.80	17.70	9.70	4.90	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 11:15 AM	219.00	6.20	4.70	17.40	12.70	17.40	9.20	4.70	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 11:30 AM	251.00	7.50	5.20	18.00	12.80	18.00	9.20	5.20	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 11:45 AM	231.00	5.10	5.10	17.70	12.60	17.70	9.10	5.10	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 12:00 PM	236.00	6.10	5.00	17.10	12.10	17.10	9.60	5.00	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 12:15 PM	238.00	6.50	4.80	16.60	11.80	16.60	8.60	4.80	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 12:30 PM	231.00	4.50	3.90	16.80	12.90	16.80	8.00	3.90	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 12:45 PM	233.00	6.80	3.10	16.50	13.40	16.50	8.60	3.10	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 1:00 PM	262.00	5.40	3.10	17.30	14.20	17.30	8.10	3.10	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 1:15 PM	256.00	5.00	3.20	19.80	16.60	19.80	9.50	3.20	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 1:30 PM	236.00	4.20	3.50	20.60	17.10	20.60	10.10	3.50	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 1:45 PM	260.00	3.80	3.30	20.60	17.30	20.60	10.80	3.30	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 2:00 PM	205.00	2.90	3.80	22.80	19.00	22.80	12.20	3.80	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 2:15 PM	231.00	6.70	3.30	21.90	18.60	21.90	11.40	3.30	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 2:30 PM	209.00	6.40	3.30	22.70	19.40	22.70	11.20	3.30	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 2:45 PM	209.00	4.70	2.90	22.10	19.20	22.10	11.40	2.90	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 3:00 PM	224.00	6.00	3.90	24.60	20.70	24.60	11.10	3.90	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 3:15 PM	204.00	6.20	3.90	23.10	19.20	23.10	12.20	3.90	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 3:30 PM	185.00	5.10	3.00	23.00	20.00	23.00	11.00	3.00	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 3:45 PM	197.00	5.70	3.30	20.70	17.40	20.70	10.80	3.30	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 4:00 PM	235.00	6.80	3.30	20.80	17.50	20.80	10.70	3.30	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 4:15 PM	213.00	4.30	3.10	20.10	17.00	20.10	12.80	3.10	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 4:30 PM	234.00	6.60	2.70	20.40	17.70	20.40	9.80	2.70	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 4:45 PM	9.00	4.70	20.20	2.80	0.00	20.20	10.50	2.80	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 5:00 PM	5.00	8.70	20.40	3.50	0.00	20.40	11.40	3.50	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 5:15 PM	353.00	8.30	13.20	15.70	2.50	21.50	15.70	5.90	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 5:30 PM	323.00	3.30	13.40	16.10	2.70	21.60	16.10	8.20	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 5:45 PM	294.00	5.10	6.10	11.90	5.80	19.30	11.90	7.50	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 6:00 PM	324.00	3.70	3.50	2.40	0.00	13.20	2.40	0.10	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 6:15 PM	350.00	13.50	3.80	1.60	0.00	10.00	1.60	0.20	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 6:30 PM	0.00	0.00	0.00	0.00	0.00	10.70	3.80	1.80	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 6:45 PM	352.00	9.20	10.40	33.00	22.60	17.00	33.00	26.40	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 7:00 PM	6.00	6.90	15.90	75.90	60.00	15.90	40.60	75.90	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 7:15 PM	5.00	5.30	13.10	44.10	31.00	13.10	25.40	44.10	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 7:30 PM	21.00	5.00	12.20	12.10	0.00	12.20	11.80	12.10	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 7:45 PM	17.00	6.30	12.10	10.40	0.00	12.10	11.20	10.40	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 8:00 PM	32.00	5.90	11.90	7.90	0.00	11.90	9.30	7.90	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 8:15 PM	32.00	5.70	11.40	6.90	0.00	11.40	7.80	6.90	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 8:30 PM	52.00	4.70	11.00	7.00	0.00	11.00	7.70	7.00	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 8:45 PM	41.00	4.20	13.20	21.60	8.40	13.20	10.60	21.60	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 9:00 PM	10.00	7.10	10.90	25.10	14.20	10.90	10.50	25.10	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 9:15 PM	350.00	2.90	3.60	7.10	3.50	9.50	7.10	12.10	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 9:30 PM	29.00	2.00	9.10	3.90	0.00	9.10	3.60	3.90	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 9:45 PM	26.00	2.20	9.70	6.80	0.00	9.70	5.90	6.80	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 10:00 PM	300.00	2.60	7.00	5.70	0.00	8.40	5.70	2.30	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 10:15 PM	286.00	2.50	1.10	1.60	0.50	7.60	1.60	0.00	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/5/14 10:30 PM	256.00	1.80	2.10	6.20	4.10	6.20	2.70	2.								



**US Army Corps
of Engineers®**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
September 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
9/7/14 7:45 AM	241.00	2.10	38.90	21.50	0.00	21.50	28.00	38.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 8:00 AM	236.00	1.70	35.80	20.50	0.00	20.50	27.00	35.80	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 8:15 AM	239.00	1.90	34.30	20.10	0.00	20.10	27.70	34.30	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 8:30 AM	244.00	1.60	31.90	20.20	0.00	20.20	25.80	31.90	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 8:45 AM	0.00	0.00	0.00	0.00	0.00	0.00	20.60	27.10	31.50	10.60	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 9:00 AM	245.00	0.80	29.50	20.60	0.00	20.60	25.70	29.50	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 9:15 AM	248.00	1.30	26.60	21.40	0.00	21.40	24.70	26.60	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 9:45 AM	259.00	0.60	21.50	19.90	0.00	19.90	20.90	21.50	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 10:00 AM	300.00	1.60	10.50	19.00	8.50	17.20	19.00	18.60	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 10:15 AM	324.00	0.40	10.00	17.30	7.30	17.00	17.30	16.90	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 10:30 AM	98.00	0.50	16.10	10.30	0.00	15.00	16.10	14.10	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 10:45 AM	333.00	1.10	9.00	13.50	4.50	14.20	13.50	14.10	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 11:00 AM	268.00	0.50	11.10	12.30	1.20	12.30	10.70	11.10	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 11:15 AM	71.00	0.40	11.90	9.00	0.00	11.90	11.00	9.00	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 11:30 AM	24.00	1.90	0.00	7.40	0.00	0.00	8.00	7.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 11:45 AM	321.00	2.50	6.90	8.60	1.70	10.10	8.60	6.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 12:00 PM	36.00	1.30	7.70	5.70	0.00	7.70	8.00	5.70	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 12:15 PM	349.00	2.10	5.60	6.00	0.40	7.80	6.00	5.90	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 12:30 PM	342.00	1.40	4.00	6.00	2.00	7.30	6.00	5.30	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 12:45 PM	18.00	2.60	7.10	5.20	0.00	7.10	4.60	5.20	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 1:00 PM	37.00	3.20	7.60	5.40	0.00	7.60	4.50	5.40	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 1:15 PM	77.00	1.90	7.70	5.80	0.00	7.70	6.30	5.80	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 1:30 PM	36.00	3.30	8.30	6.30	0.00	8.30	7.60	6.30	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 1:45 PM	28.00	3.90	7.60	6.00	0.00	7.60	9.80	6.00	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 2:00 PM	44.00	4.20	8.40	7.10	0.00	8.40	10.60	7.10	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 2:15 PM	16.00	3.40	7.10	8.80	1.70	7.10	16.40	8.80	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 2:30 PM	79.00	2.60	7.80	9.50	1.70	7.80	26.10	9.50	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 2:45 PM	28.00	1.30	0.00	10.40	0.00	0.00	12.70	10.40	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 3:00 PM	25.00	3.30	8.10	9.80	1.70	8.10	18.50	9.80	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 3:15 PM	62.00	4.00	9.10	11.00	1.90	9.10	11.60	11.00	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 3:30 PM	55.00	3.30	10.50	9.40	0.00	10.50	15.40	9.40	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 3:45 PM	27.00	5.20	14.90	12.80	0.00	14.90	24.00	12.80	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 4:00 PM	50.00	4.40	18.40	12.10	0.00	18.40	21.90	12.10	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 4:15 PM	21.00	4.70	11.80	13.20	1.40	11.80	21.60	13.20	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 4:30 PM	29.00	4.80	18.00	12.70	0.00	18.00	25.30	12.70	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 4:45 PM	33.00	4.40	17.20	15.60	0.00	17.20	20.40	15.60	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 5:00 PM	24.00	4.90	10.90	17.00	6.10	10.90	17.70	17.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 5:15 PM	56.00	3.80	9.80	12.50	2.70	9.80	13.60	12.50	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 5:30 PM	46.00	3.50	9.00	11.00	2.00	9.00	17.90	11.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 5:45 PM	0.00	0.00	0.00	0.00	0.00	8.40	13.60	18.30	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 6:00 PM	80.00	3.20	7.70	18.30	10.60	7.70	15.20	18.30	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 6:15 PM	79.00	3.00	8.50	14.90	6.40	8.50	16.20	14.90	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 6:30 PM	66.00	1.50	13.60	16.10	2.50	13.60	12.70	16.10	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 6:45 PM	82.00	2.50	13.40	17.40	4.00	13.40	23.10	17.40	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 7:00 PM	73.00	2.90	12.50	22.80	10.30	12.50	26.40	22.80	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 7:15 PM	105.00	2.00	11.50	17.40	5.90	30.70	11.50	25.00	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 7:30 PM	109.00	2.70	11.90	10.00	0.00	14.20	11.90	18.50	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 7:45 PM	116.00	2.30	9.80	4.70	0.00	9.70	9.80	15.60	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 8:00 PM	109.00	1.50	10.90	4.20	0.00	8.90	10.90	17.10	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 8:15 PM	105.00	1.50	11.60	3.70	0.00	8.90	11.60	18.30	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 8:30 PM	121.00	1.70	12.10	3.30	0.00	8.90	12.10	18.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 8:45 PM	114.00	1.20	14.70	3.30	0.00	9.70	14.70	19.80	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 9:00 PM	147.00	2.20	13.30	3.20	0.00	9.10	13.30	21.80	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 9:15 PM	154.00	1.90	17.40	3.20	0.00	0.00	17.40	22.80	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 9:30 PM	156.00	1.90	18.80	4.20	0.00	11.00	18.80	24.20	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 9:45 PM	175.00	1.70	19.90	3.90	0.00	10.30	19.90	25.60	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 10:00 PM	163.00	1.50	20.10	4.40	0.00	0.00	20.10	26.40	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 10:15 PM	154.00	1.70	25.40	4.00	0.00	10.60	25.40	29.30	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 10:30 PM	155.00	1.50	28.00	4.20	0.00	12.40	28.00	29.00	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 10:45 PM	149.00	2.00	31.00	5.70	0.00	13.70	31.00	32.90	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 11:00 PM	153.00	1.30	44.20	8.10	0.00	20.10	44.20	36.20	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 11:15 PM	152.00	1.70	48.30	14.00	0.00	27.90	48.30	39.60	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 11:30 PM	160.00	1.70	42.60	12.60	0.00	23.40	42.60	37.00	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/7/14 11:45 PM	156.00	2.60	34.40	12.00	0.00	18.50	34.40	30.60	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 12:00 AM	165.00	2.40	31.30	12.80	0.00	19.40	31.30	30.50	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 12:15 AM	153.00	1.70	42.10	20.40	0.00	20.40	42.10	32.20	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 12:30 AM	148.00	2.40	51.50	21.40	0.00	25.00	51.50	31.50	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 12:45 AM	160.00	1.90	43.50	19.90	0.00	20.40	43.50	31.60	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 1:00 AM	171.00	2.10	60.40	24.30	0.00	20.50	60.40	32.60	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 1:15 AM	169.00	2.20	64.30	24.80	0.00	22.10	64.30	31.90	24.80	0.00	0.00	0.00	0.					



**US Army Corps
of Engineers®**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
September 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
9/8/14 9:15 AM	155.00	2.10	19.60	10.50	0.00	24.70	19.60	18.90	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 9:30 AM	159.00	3.60	18.50	11.60	0.00	23.20	18.50	17.20	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 9:45 AM	141.00	2.70	15.20	11.40	0.00	33.00	15.20	14.80	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 10:00 AM	157.00	2.20	23.10	15.50	0.00	24.40	23.10	15.10	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 10:15 AM	165.00	4.10	15.00	11.30	0.00	22.40	15.00	17.70	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 10:30 AM	156.00	1.80	17.20	11.30	0.00	23.60	17.20	13.90	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 10:45 AM	154.00	2.90	12.40	9.40	0.00	18.40	12.40	12.00	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 11:00 AM	140.00	3.30	9.90	8.90	0.00	20.10	9.90	10.90	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 11:15 AM	168.00	2.50	13.60	6.40	0.00	12.30	13.60	9.90	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 11:30 AM	165.00	4.80	6.70	7.20	0.50	13.00	6.70	9.30	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 11:45 AM	163.00	4.40	7.90	7.70	0.00	15.10	7.90	8.80	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 12:00 PM	198.00	5.10	9.10	9.90	0.80	9.90	5.30	9.10	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 12:15 PM	161.00	4.40	10.10	5.80	0.00	11.50	10.10	7.80	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 12:30 PM	148.00	2.60	2.70	5.60	2.90	9.90	2.70	7.20	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 12:45 PM	189.00	1.10	6.50	8.20	1.70	8.20	3.60	6.50	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 1:00 PM	180.00	2.70	6.40	8.50	2.10	8.50	4.20	6.40	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 1:15 PM	131.00	2.80	3.90	5.00	1.10	8.60	3.90	6.10	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 1:30 PM	179.00	3.00	3.40	5.00	1.60	8.30	3.40	6.10	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 1:45 PM	136.00	3.50	4.00	5.30	1.30	9.30	4.00	6.40	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 2:00 PM	156.00	4.90	3.50	5.10	1.60	8.90	3.50	6.20	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 2:15 PM	180.00	6.50	6.10	9.40	3.30	9.40	4.90	6.10	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 2:30 PM	167.00	4.80	4.00	5.10	1.10	10.40	4.00	5.90	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 2:45 PM	168.00	3.50	4.40	5.30	0.90	11.10	4.40	6.10	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 3:00 PM	198.00	4.70	6.10	10.30	4.20	10.30	5.80	6.10	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 3:15 PM	179.00	4.50	5.00	5.00	0.00	9.40	5.00	6.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 3:30 PM	180.00	3.50	6.40	9.70	3.30	9.70	6.80	6.40	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 3:45 PM	150.00	4.20	5.20	5.50	0.30	9.90	5.20	7.60	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 4:00 PM	134.00	4.70	6.50	5.10	0.00	10.30	6.50	7.50	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 4:15 PM	189.00	3.40	7.00	10.70	3.70	10.70	6.10	7.00	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 4:30 PM	173.00	3.50	7.50	5.30	0.00	10.40	7.50	7.70	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 4:45 PM	166.00	3.30	5.20	5.00	0.00	12.40	5.20	7.30	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 5:00 PM	152.00	3.90	9.40	5.90	0.00	11.70	9.40	8.60	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 5:15 PM	154.00	3.90	6.50	5.70	0.00	10.10	6.50	8.20	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 5:30 PM	161.00	4.40	7.10	5.60	0.00	11.30	7.10	8.10	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 5:45 PM	173.00	3.60	5.90	5.70	0.00	12.60	5.90	8.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 6:00 PM	197.00	2.60	8.10	11.10	3.00	11.10	8.30	8.10	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 6:15 PM	154.00	4.00	7.20	6.50	0.00	11.70	7.20	8.40	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 6:30 PM	189.00	4.00	8.40	10.60	2.20	10.60	6.20	8.40	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 6:45 PM	186.00	2.80	8.10	11.70	3.60	11.70	6.50	8.10	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 7:00 PM	207.00	2.00	8.90	10.20	1.30	10.20	7.60	8.90	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 7:15 PM	200.00	1.80	8.80	10.70	1.90	10.70	12.90	8.80	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 7:30 PM	178.00	1.40	9.00	7.30	0.00	11.00	9.00	9.10	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 7:45 PM	167.00	2.00	8.70	7.70	0.00	11.70	8.70	9.70	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 8:00 PM	168.00	1.70	14.40	8.90	0.00	12.70	14.40	10.20	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 8:15 PM	189.00	1.50	10.70	12.10	1.40	12.10	10.90	10.70	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 8:30 PM	153.00	1.60	10.80	7.40	0.00	13.00	10.80	11.10	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 8:45 PM	156.00	2.10	13.30	8.20	0.00	13.20	13.30	12.10	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 9:00 PM	146.00	2.20	15.60	8.50	0.00	14.60	15.60	13.10	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 9:15 PM	172.00	1.70	16.60	9.90	0.00	13.50	16.60	14.00	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 9:30 PM	266.00	1.30	15.50	19.00	3.50	19.00	24.50	15.50	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 9:45 PM	166.00	1.80	27.00	13.90	0.00	20.40	27.00	15.60	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 10:00 PM	186.00	1.50	18.20	22.60	4.40	22.60	28.10	18.20	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 10:15 PM	172.00	2.30	27.90	12.50	0.00	24.80	27.90	19.80	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 10:30 PM	156.00	1.80	33.70	12.40	0.00	24.90	33.70	19.40	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 10:45 PM	182.00	2.10	19.60	21.70	2.10	21.70	28.80	19.60	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 11:00 PM	170.00	2.30	25.50	12.00	0.00	21.60	25.50	19.10	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 11:15 PM	171.00	2.80	24.50	13.30	0.00	20.80	24.50	19.70	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 11:30 PM	175.00	2.00	25.10	13.70	0.00	19.60	25.10	20.10	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/8/14 11:45 PM	157.00	3.40	21.40	14.00	0.00	19.60	21.40	18.70	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/9/14 12:00 AM	318.00	1.40	13.20	21.70	8.50	17.60	21.70	18.80	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/9/14 12:15 AM	0.00	0.00	0.00	0.00	0.00	20.90	23.10	18.90	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/9/14 12:30 AM	165.00	2.20	20.80	13.30	0.00	17.10	20.80	18.70	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/9/14 12:45 AM	172.00	1.90	20.90	13.20	0.00	18.00	20.90	19.00	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/9/14 1:00 AM	161.00	2.90	23.40	13.40	0.00	19.00	23.40	19.30	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/9/14 1:15 AM	170.00	3.30	24.20	13.00	0.00	19.80	24.20	19.30	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/9/14 1:30 AM	168.00	2.60	25.80	12.30	0.00	22.00	25.80	19.80	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/9/14 1:45 AM	171.00	2.80	23.40	14.50	0.00	19.00	23.40	20.40	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/9/14 2:00 AM	168.00	2.70	22.40	12.40	0.00	19.30	22.40	21.20	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/9/14 2:15 AM	181.00	2.50	20.90	18.10	0.00	18.10	23.40	20.90	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/9/14 2:30 AM	206.00	2.50	20.10	17.80	0.00	17.80	22.00	20.10	10.70	0.00	0.00	0.00	0.00	0.				



**US Army Corps
of Engineers®**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
September 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
9/9/14 10:30 AM	202.00	5.80	23.20	15.00	0.00	15.00	25.40	23.20	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 10:45 AM	186.00	4.70	23.80	15.50	0.00	15.50	26.00	23.80	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 11:00 AM	184.00	5.10	23.80	15.80	0.00	15.80	26.50	23.80	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 11:15 AM	188.00	4.10	23.20	15.70	0.00	15.70	27.10	23.20	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 11:30 AM	207.00	5.60	20.20	14.40	0.00	14.40	22.10	20.20	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 11:45 AM	218.00	4.80	15.00	12.90	0.00	12.90	16.60	15.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 12:00 PM	213.00	3.40	13.20	12.10	0.00	12.10	16.00	13.20	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 12:15 PM	201.00	6.00	13.50	12.60	0.00	12.60	12.20	13.50	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 12:30 PM	181.00	5.90	13.60	12.00	0.00	12.00	10.90	13.60	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 12:45 PM	205.00	4.40	12.10	10.40	0.00	10.40	10.30	12.10	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 1:00 PM	187.00	6.40	11.60	11.90	0.30	11.90	11.70	11.60	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 1:15 PM	207.00	5.30	11.60	10.90	0.00	10.90	10.70	11.60	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 1:30 PM	207.00	4.40	10.90	12.80	1.90	12.80	10.80	10.90	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 1:45 PM	194.00	4.10	10.90	11.00	0.10	11.00	11.00	10.90	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 2:00 PM	154.00	4.50	12.00	4.20	0.00	11.80	12.00	11.60	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 2:15 PM	212.00	4.70	12.20	11.80	0.00	11.80	12.10	12.20	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 2:30 PM	187.00	4.80	11.90	10.80	0.00	10.80	12.10	11.90	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 2:45 PM	176.00	4.50	13.20	5.80	0.00	11.50	13.20	13.50	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 3:00 PM	187.00	4.50	15.00	12.40	0.00	12.40	13.80	15.00	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 3:15 PM	168.00	3.90	16.50	7.40	0.00	13.10	16.50	15.30	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 3:30 PM	175.00	4.90	16.70	7.30	0.00	14.20	16.70	16.20	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 3:45 PM	214.00	5.30	16.00	14.60	0.00	14.60	22.70	16.00	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 4:00 PM	181.00	3.50	17.60	16.80	0.00	16.80	19.80	17.60	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 4:15 PM	160.00	3.60	20.30	8.30	0.00	16.70	20.30	18.40	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 4:30 PM	201.00	4.20	19.10	16.10	0.00	16.10	21.70	19.10	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 4:45 PM	172.00	3.60	22.50	9.30	0.00	16.10	22.50	19.90	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 5:00 PM	172.00	4.60	21.90	8.40	0.00	16.50	21.90	19.80	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 5:15 PM	172.00	3.30	22.20	8.70	0.00	16.60	22.20	19.90	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 5:30 PM	182.00	2.70	19.80	15.50	0.00	15.50	20.40	19.80	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 5:45 PM	187.00	4.30	17.60	14.90	0.00	14.90	19.90	17.60	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 6:00 PM	189.00	2.50	17.20	15.30	0.00	15.30	18.30	17.20	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 6:15 PM	159.00	3.10	17.30	8.40	0.00	15.30	17.30	16.90	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 6:30 PM	157.00	3.80	17.50	8.00	0.00	15.00	17.50	18.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 6:45 PM	165.00	3.40	16.70	6.90	0.00	13.60	16.70	17.20	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 7:00 PM	156.00	4.80	14.70	6.70	0.00	12.70	14.70	14.00	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 7:15 PM	169.00	3.00	14.10	6.10	0.00	13.10	14.10	14.30	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 7:30 PM	160.00	4.70	16.10	7.50	0.00	13.00	16.10	15.20	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 7:45 PM	189.00	6.30	17.80	15.30	0.00	15.30	18.80	17.80	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 8:00 PM	185.00	4.50	20.80	17.40	0.00	17.40	23.10	20.80	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 8:15 PM	0.00	0.00	0.00	0.00	0.00	19.80	24.40	24.10	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 8:30 PM	181.00	6.40	24.80	18.60	0.00	18.60	25.20	24.80	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 8:45 PM	180.00	3.90	27.30	20.60	0.00	20.60	28.60	27.30	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 9:00 PM	190.00	5.10	28.70	20.90	0.00	20.90	28.90	28.70	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 9:15 PM	172.00	2.10	28.30	12.10	0.00	20.80	28.30	28.30	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 9:30 PM	187.00	3.40	27.20	21.30	0.00	21.30	26.30	27.20	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 9:45 PM	182.00	3.80	26.20	21.50	0.00	21.50	25.00	26.20	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 10:00 PM	167.00	3.70	25.70	12.60	0.00	21.00	25.70	26.30	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 10:15 PM	172.00	3.80	25.40	0.00	0.00	0.00	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 10:30 PM	170.00	4.40	24.80	12.30	0.00	22.00	24.80	26.60	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 10:45 PM	191.00	5.40	26.20	22.40	0.00	22.40	25.40	26.20	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 11:00 PM	0.00	0.00	0.00	0.00	0.00	22.60	24.90	25.90	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 11:15 PM	177.00	4.10	23.90	12.20	0.00	23.80	23.90	24.60	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 11:30 PM	178.00	5.00	23.70	11.60	0.00	21.60	23.70	25.40	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/14 11:45 PM	185.00	5.00	25.50	23.00	0.00	23.00	24.50	25.50	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/10/14 12:00 AM	189.00	4.20	24.60	22.80	0.00	22.80	24.70	24.60	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/10/14 12:15 AM	189.00	4.60	24.00	23.00	0.00	23.00	24.10	24.00	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/10/14 12:30 AM	188.00	3.30	25.40	24.40	0.00	24.40	24.70	25.40	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/10/14 12:45 AM	170.00	2.60	24.70	18.40	0.00	24.30	24.70	25.60	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/10/14 1:00 AM	183.00	3.70	25.30	24.40	0.00	24.40	24.30	25.30	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/10/14 1:15 AM	195.00	5.10	25.40	24.60	0.00	24.60	23.90	25.40	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/10/14 1:30 AM	184.00	4.00	25.30	24.80	0.00	24.80	23.20	25.30	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/10/14 1:45 AM	187.00	4.00	27.60	24.80	0.00	24.80	23.70	27.60	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/10/14 2:00 AM	190.00	3.60	24.90	25.50	0.60	25.50	23.90	24.90	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/10/14 2:15 AM	174.00	3.20	24.90	16.60	0.00	27.00	24.90	24.70	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/10/14 2:30 AM	170.00	3.10	27.60	17.40	0.00	27.20	27.60	30.00	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/10/14 2:45 AM	161.00	3.80	32.50	16.50	0.00	26.70	32.50	36.20	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/10/14 3:00 AM	172.00	3.70	33.50	16.00	0.00	27.50	33.50	37.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/10/14 3:15 AM	167.00	3.60	39.20	18.00	0.00	29.50	39.20	42.80	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/10/14 3:30 AM	171.00	3.70	38.20	18.30	0.00	26.70	38.20	49.60	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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September 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
9/10/14 11:45 AM	209.00	6.90	196.90	19.20	0.00	19.20	45.10	196.90	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 12:00 PM	209.00	7.60	163.90	17.60	0.00	17.60	29.80	163.90	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 12:15 PM	208.00	6.30	162.50	16.50	0.00	16.50	30.40	162.50	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 12:30 PM	207.00	5.80	162.60	16.30	0.00	16.30	31.30	162.60	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 12:45 PM	218.00	5.30	141.50	15.70	0.00	15.70	24.70	141.50	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 1:00 PM	216.00	6.80	134.40	15.20	0.00	15.20	21.70	134.40	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 1:15 PM	206.00	6.00	115.40	15.10	0.00	15.10	20.30	115.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 1:30 PM	214.00	5.50	99.60	15.00	0.00	15.00	18.30	99.60	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 1:45 PM	221.00	5.70	80.00	14.10	0.00	14.10	15.10	80.00	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 2:00 PM	211.00	7.50	68.80	13.40	0.00	13.40	13.90	68.80	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 2:15 PM	225.00	7.40	62.40	13.40	0.00	13.40	12.80	62.40	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 2:30 PM	234.00	7.80	49.10	12.50	0.00	12.50	10.10	49.10	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 2:45 PM	232.00	5.00	40.90	13.20	0.00	13.20	9.40	40.90	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 3:00 PM	217.00	6.30	35.90	13.20	0.00	13.20	8.60	35.90	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 3:15 PM	228.00	8.30	30.40	12.80	0.00	12.80	7.30	30.40	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 3:30 PM	212.00	5.00	26.20	13.00	0.00	13.00	6.50	26.20	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 3:45 PM	203.00	5.70	23.60	12.70	0.00	12.70	5.20	23.60	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 4:00 PM	229.00	7.10	21.40	12.70	0.00	12.70	4.90	21.40	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 4:15 PM	206.00	6.00	20.70	14.00	0.00	14.00	5.70	20.70	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 4:30 PM	225.00	5.50	17.80	13.50	0.00	13.50	5.40	17.80	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 4:45 PM	239.00	6.60	19.20	12.50	0.00	12.50	5.40	19.20	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 5:00 PM	256.00	4.10	20.80	11.80	0.00	11.80	5.80	20.80	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 5:15 PM	257.00	10.80	22.50	11.50	0.00	11.50	6.00	22.50	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 5:30 PM	258.00	9.50	23.00	10.40	0.00	10.40	5.90	23.00	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 5:45 PM	255.00	5.00	15.10	10.00	0.00	10.00	4.40	15.10	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 6:00 PM	267.00	5.00	12.60	10.40	0.00	10.40	3.80	12.60	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 6:15 PM	247.00	5.60	15.10	8.70	0.00	8.70	4.60	15.10	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 6:30 PM	267.00	5.10	3.20	8.00	4.80	8.00	1.20	3.20	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 6:45 PM	259.00	7.40	2.30	7.60	5.30	7.60	0.50	2.30	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 7:00 PM	285.00	6.10	2.60	0.40	0.00	2.60	0.40	1.20	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 7:15 PM	285.00	7.60	2.20	0.40	0.00	2.20	0.40	1.30	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 7:30 PM	283.00	4.70	2.30	0.50	0.00	2.30	0.50	1.70	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 7:45 PM	293.00	8.20	1.80	0.50	0.00	1.80	0.50	1.40	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 8:00 PM	305.00	7.60	2.70	0.30	0.00	2.70	0.30	1.10	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 8:15 PM	307.00	4.30	2.20	0.70	0.00	2.20	0.70	1.60	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 8:30 PM	318.00	6.20	2.50	0.70	0.00	2.50	0.70	1.30	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 8:45 PM	323.00	7.30	2.30	0.60	0.00	2.30	0.60	1.40	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 9:00 PM	304.00	6.80	1.90	0.60	0.00	1.90	0.60	1.10	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 9:15 PM	337.00	5.50	1.30	0.80	0.00	1.30	0.80	1.20	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 9:30 PM	325.00	5.80	1.40	0.90	0.00	1.40	0.90	1.50	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 9:45 PM	318.00	5.60	1.60	0.90	0.00	1.60	0.90	1.30	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 10:00 PM	336.00	5.20	1.60	0.80	0.00	1.60	0.80	0.50	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 10:15 PM	317.00	5.00	1.90	1.40	0.00	1.90	1.40	0.60	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 10:30 PM	322.00	5.40	1.20	0.80	0.00	1.20	0.80	0.10	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 10:45 PM	329.00	4.40	1.50	0.80	0.00	1.50	0.80	0.40	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 11:00 PM	338.00	5.20	1.40	1.00	0.00	1.40	1.00	0.40	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 11:15 PM	350.00	7.00	1.40	1.30	0.00	1.40	1.30	0.50	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 11:30 PM	349.00	8.00	2.70	1.70	0.00	2.70	1.70	0.90	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/10/14 11:45 PM	357.00	10.00	1.90	1.80	0.00	1.90	1.80	0.90	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/11/14 12:00 AM	359.00	10.00	1.40	1.10	0.00	1.40	1.10	0.40	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/11/14 12:15 AM	358.00	9.00	1.50	0.90	0.00	1.50	0.90	0.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/11/14 12:30 AM	354.00	9.60	1.20	0.90	0.00	1.20	0.90	0.70	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/11/14 12:45 AM	352.00	8.90	1.60	1.40	0.00	1.60	1.40	1.20	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/11/14 1:00 AM	2.00	9.30	5.50	1.40	0.00	5.50	1.40	1.40	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/11/14 1:15 AM	356.00	9.20	1.00	0.80	0.00	1.00	0.80	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/11/14 1:30 AM	356.00	8.30	0.80	0.90	0.10	5.20	0.90	0.80	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/11/14 1:45 AM	356.00	10.30	0.90	0.90	0.00	5.80	0.90	0.90	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/11/14 2:00 AM	353.00	9.60	1.10	1.10	0.00	5.70	1.10	1.00	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/11/14 2:15 AM	353.00	8.60	0.90	0.80	0.00	4.60	0.80	1.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/11/14 2:30 AM	353.00	8.80	1.20	1.50	0.30	5.10	1.50	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/11/14 2:45 AM	355.00	8.80	1.70	1.20	0.00	5.30	1.20	1.70	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/11/14 3:00 AM	355.00	9.00	1.70	1.20	0.00	4.30	1.20	1.70	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/11/14 3:15 AM	354.00	9.40	1.40	0.80	0.00	3.90	0.80	1.60	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/11/14 3:30 AM	357.00	8.40	1.70	1.10	0.00	4.40	1.10	1.90	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/11/14 3:45 AM	352.00	7.50	2.50	1.20	0.00	5.00	1.20	2.40	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/11/14 4:00 AM	354.00	8.20	2.00	1.40	0.00	4.50	1.40	2.30	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/11/14 4:15 AM	358.00	7.80	2.40	2.10	0.00	4.60	2.10	2.30	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/11/14 4:30 AM	348.00	6.40	1.90	1.90	0.00	4.50	1.90	2.10	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/11/14 4:45 AM	356.00	7.80	1.90	2.10	0.20	4.50	2.10	2.10	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/11/14 5:00 AM	354.00	6.80	1.50	1.30	0.00	3.90	1.30	1.80	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		



US Army Corps
of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
September 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
9/11/14 1:00 PM	359.00	8.70	3.60	3.20	0.00	4.20	3.20	4.00	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 1:15 PM	359.00	7.70	3.60	3.60	0.00	4.60	3.60	4.00	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 1:30 PM	356.00	5.60	5.40	4.10	0.00	5.20	4.10	4.20	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 1:45 PM	359.00	7.00	4.60	3.90	0.00	5.40	3.90	4.40	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 2:00 PM	352.00	6.40	5.20	3.90	0.00	5.40	3.90	3.90	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 2:15 PM	349.00	6.70	5.00	3.40	0.00	5.20	3.40	3.90	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 2:30 PM	341.00	4.40	6.10	3.60	0.00	5.90	3.60	4.00	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 2:45 PM	345.00	4.00	5.60	3.50	0.00	5.00	3.50	3.60	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 3:00 PM	343.00	4.30	4.30	3.20	0.00	4.70	3.20	3.70	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 3:15 PM	333.00	4.50	4.10	3.20	0.00	4.70	3.20	3.10	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 3:30 PM	341.00	4.60	4.10	3.20	0.00	4.80	3.20	3.50	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 3:45 PM	354.00	6.60	3.60	4.00	0.40	4.80	4.00	3.80	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 4:00 PM	357.00	6.70	3.40	3.90	0.50	5.10	3.90	3.90	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 4:15 PM	337.00	5.80	2.40	4.20	1.80	4.50	4.20	4.10	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 4:30 PM	348.00	6.50	1.90	3.30	1.40	4.10	3.30	4.00	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 4:45 PM	353.00	6.70	2.60	3.60	1.00	4.00	3.60	4.10	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 5:00 PM	333.00	5.30	2.50	3.70	1.20	4.50	3.70	4.40	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 5:15 PM	339.00	4.40	2.30	3.60	1.30	4.10	3.60	4.30	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 5:30 PM	341.00	4.70	2.10	3.70	1.60	4.10	3.70	4.30	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 5:45 PM	350.00	6.80	2.90	4.20	1.30	4.30	4.20	5.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 6:00 PM	343.00	4.40	2.70	4.30	1.60	4.60	4.30	4.70	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 6:15 PM	331.00	5.60	3.20	4.50	1.30	5.10	4.50	5.00	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 6:30 PM	335.00	5.50	3.50	4.90	1.40	5.20	4.90	4.70	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 6:45 PM	337.00	4.60	4.00	5.00	1.00	5.00	5.00	4.70	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 7:00 PM	325.00	6.20	4.80	4.60	0.00	5.30	4.60	5.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 7:15 PM	343.00	6.20	5.40	6.10	0.70	6.20	6.10	5.00	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 7:30 PM	342.00	5.00	7.10	7.10	0.00	5.80	7.10	6.20	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 7:45 PM	345.00	5.00	6.50	8.30	1.80	5.60	8.30	6.40	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 8:00 PM	342.00	4.80	6.90	10.10	3.20	5.80	10.10	8.10	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 8:15 PM	343.00	5.50	6.40	10.80	4.40	6.10	10.80	8.90	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 8:30 PM	332.00	5.10	5.30	11.40	6.10	5.70	11.40	9.80	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 8:45 PM	347.00	7.10	5.60	11.90	6.30	5.70	11.90	9.80	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 9:00 PM	343.00	4.40	5.50	9.50	4.00	5.30	9.50	7.90	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 9:15 PM	349.00	7.50	5.70	8.20	2.50	4.90	8.20	7.80	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 9:30 PM	346.00	4.50	6.40	8.50	2.10	5.10	8.50	7.80	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 9:45 PM	346.00	5.60	6.90	9.30	2.40	5.60	9.30	8.30	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 10:00 PM	342.00	3.80	9.00	8.90	0.00	5.20	8.90	7.90	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 10:15 PM	323.00	4.50	9.50	8.80	0.00	5.40	8.80	7.80	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 10:30 PM	320.00	6.30	8.70	9.10	0.40	5.90	9.10	8.20	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 10:45 PM	326.00	4.10	9.20	9.40	0.20	6.10	9.40	9.00	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 11:00 PM	322.00	4.50	9.80	10.30	0.50	7.10	10.30	8.90	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 11:15 PM	317.00	4.90	9.00	10.90	1.90	6.10	10.90	9.10	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 11:30 PM	329.00	3.80	8.70	9.80	1.10	6.90	9.80	8.60	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/14 11:45 PM	345.00	3.90	8.90	9.00	0.10	6.60	9.00	7.80	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 12:00 AM	343.00	3.70	8.00	7.50	0.00	5.90	7.50	7.50	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 12:15 AM	319.00	3.90	8.00	8.40	0.40	6.30	8.40	8.10	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 12:30 AM	338.00	3.20	7.50	7.60	0.10	5.80	7.60	7.00	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 12:45 AM	347.00	3.90	7.60	7.80	0.20	6.20	7.80	7.30	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 1:00 AM	331.00	5.00	7.00	8.30	1.30	5.90	8.30	7.10	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 1:15 AM	345.00	4.30	5.90	7.30	1.40	6.00	7.30	6.70	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 1:30 AM	349.00	5.30	4.60	6.90	2.30	5.50	6.90	7.70	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 1:45 AM	1.00	3.40	0.00	7.80	0.00	0.00	7.10	7.80	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 2:00 AM	19.00	7.60	5.10	8.30	3.20	5.10	7.40	8.30	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 2:15 AM	8.00	7.50	5.30	8.30	3.00	5.30	7.40	8.30	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 2:30 AM	8.00	8.00	5.10	10.30	5.20	5.10	8.30	10.30	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 2:45 AM	15.00	7.50	3.30	10.20	6.90	3.30	2.30	10.20	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 3:00 AM	21.00	8.10	2.90	8.30	5.40	2.90	2.30	8.30	-0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 3:15 AM	9.00	9.30	3.30	16.10	12.80	3.30	4.00	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 3:30 AM	29.00	8.10	2.90	14.00	11.10	2.90	2.80	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 3:45 AM	30.00	7.20	3.00	13.20	10.20	3.00	3.00	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 4:00 AM	16.00	9.90	4.00	13.30	9.30	4.00	2.00	13.30	-0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 4:15 AM	15.00	8.40	3.70	10.90	7.20	3.70	3.90	10.90	-0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 4:30 AM	15.00	7.70	3.30	10.10	6.80	3.30	4.60	10.10	-0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 4:45 AM	17.00	7.40	2.70	9.50	6.80	2.70	2.80	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 5:00 AM	25.00	10.00	2.20	12.30	10.10	2.20	3.20	12.30	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 5:15 AM	42.00	7.70	2.70	9.30	6.60	2.70	3.70	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 5:30 AM	25.00	8.10	2.90	12.20	9.30	2.90	3.20	12.20	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 5:45 AM	35.00	7.40	2.30	13.10	10.80	2.30	3.50	13.10	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 6:00 AM	41.00	6.50	3.60	9.80	6.20	3.60	4.00	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 6:15 AM	53.00	5.30	2.90	10.40	7.50	2.90	4.20	10.40	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/14 6:30 AM	47.00	5.80	2.60	9.80	7.20	2.60	5.40	9.80	0.30	0.00	0.00	0.0				



**US Army Corps
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Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
September 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)								Naphthalene (µg/m³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
9/12/14 5:45 PM	354.00	8.30	3.60	0.60	0.00	3.30	0.60	2.80	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/12/14 6:00 PM	356.00	10.30	0.70	0.70	0.00	4.40	0.70	3.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/12/14 6:15 PM	355.00	8.00	0.70	0.30	0.00	4.20	0.30	2.80	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/12/14 6:30 PM	342.00	6.20	1.20	0.50	0.00	5.00	0.50	3.00	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/12/14 6:45 PM	317.00	5.70	5.20	5.70	0.50	6.00	5.70	4.90	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/12/14 7:00 PM	340.00	5.00	2.60	5.80	3.20	4.90	5.80	6.10	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/12/14 7:15 PM	335.00	5.80	6.50	5.90	0.00	5.20	5.90	6.70	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/12/14 7:30 PM	334.00	5.40	9.80	11.30	1.50	8.10	11.30	10.50	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/12/14 7:45 PM	325.00	4.70	7.80	11.20	3.40	9.20	11.20	9.70	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/12/14 8:00 PM	322.00	4.50	13.40	8.60	0.00	0.00	8.60	9.00	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/12/14 8:15 PM	320.00	4.00	5.80	8.50	2.70	6.60	8.50	9.00	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/12/14 8:30 PM	298.00	5.70	5.80	7.60	1.80	6.10	7.60	8.50	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/12/14 8:45 PM	315.00	4.40	3.80	7.30	3.50	5.90	7.30	8.90	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/12/14 9:00 PM	338.00	4.30	2.70	5.20	2.50	3.90	5.20	7.80	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/12/14 9:15 PM	312.00	5.20	3.30	5.50	2.20	4.50	5.50	8.30	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/12/14 9:30 PM	322.00	5.60	3.60	6.70	3.10	4.80	6.70	10.10	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/12/14 9:45 PM	312.00	4.70	3.50	6.30	2.80	4.80	6.30	8.10	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/12/14 10:00 PM	314.00	4.30	3.10	5.70	2.60	4.60	5.70	7.90	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/12/14 10:15 PM	324.00	5.60	3.00	5.60	2.60	4.40	5.60	8.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/12/14 10:30 PM	315.00	3.60	2.70	5.60	2.90	4.30	5.60	7.60	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/12/14 10:45 PM	311.00	4.10	2.70	4.50	1.80	4.20	4.50	7.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/12/14 11:00 PM	312.00	3.90	2.50	4.60	2.10	3.90	4.60	7.20	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/12/14 11:15 PM	310.00	4.30	2.30	4.30	2.00	4.00	4.30	6.70	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/12/14 11:30 PM	324.00	4.40	2.80	4.30	1.50	3.80	4.30	7.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/12/14 11:45 PM	304.00	4.20	3.00	5.50	2.50	4.10	5.50	7.40	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 12:00 AM	322.00	3.70	3.20	5.40	2.20	4.40	5.40	7.20	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 12:15 AM	311.00	4.60	2.80	3.80	1.00	4.00	3.80	5.90	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 12:30 AM	322.00	5.30	3.00	3.80	0.80	3.80	3.80	6.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 12:45 AM	331.00	4.70	2.50	4.30	1.80	3.90	4.30	6.10	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 1:00 AM	316.00	5.20	2.60	3.70	1.10	3.50	3.70	5.80	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 1:15 AM	317.00	4.40	2.70	3.70	1.00	3.70	3.70	5.90	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 1:30 AM	307.00	5.60	1.40	2.50	1.10	3.00	2.50	5.20	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 1:45 AM	326.00	4.40	0.30	1.10	0.80	2.30	1.10	4.30	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 2:00 AM	310.00	4.90	0.00	1.00	1.00	2.40	1.00	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 2:15 AM	309.00	5.30	0.70	1.90	1.20	2.60	1.90	4.90	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 2:30 AM	309.00	4.60	0.50	1.60	1.10	2.40	1.60	4.90	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 2:45 AM	324.00	3.30	0.20	0.90	0.70	2.20	0.90	4.10	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 3:00 AM	339.00	5.20	1.60	1.80	0.20	2.40	1.80	4.20	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 3:15 AM	324.00	4.80	3.10	1.30	0.00	2.20	1.30	4.00	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 3:30 AM	328.00	5.90	3.20	1.60	0.00	2.50	1.60	4.00	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 3:45 AM	307.00	4.50	3.50	1.40	0.00	2.10	1.40	4.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 4:00 AM	313.00	4.10	2.90	1.30	0.00	2.10	1.30	3.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 4:15 AM	319.00	4.90	1.90	0.40	0.00	2.20	0.40	3.10	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 4:30 AM	314.00	3.30	1.60	0.00	0.00	1.80	0.00	2.60	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 4:45 AM	305.00	4.80	0.90	0.00	0.00	1.80	0.00	2.80	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 5:00 AM	310.00	4.20	1.50	0.20	0.00	1.60	0.20	3.10	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 5:15 AM	308.00	4.90	1.80	0.40	0.00	1.80	0.40	3.30	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 5:30 AM	315.00	4.50	2.30	0.90	0.00	2.20	0.90	3.50	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 5:45 AM	317.00	4.20	2.80	1.40	0.00	2.40	1.40	4.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 6:00 AM	308.00	4.20	2.90	1.30	0.00	2.30	1.30	4.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 6:15 AM	319.00	4.40	3.50	1.60	0.00	2.60	1.60	4.40	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 6:30 AM	306.00	4.00	4.20	2.00	0.00	2.90	2.00	4.70	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 6:45 AM	312.00	3.80	4.50	2.40	0.00	3.40	2.40	4.80	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 7:00 AM	315.00	3.10	5.50	2.70	0.00	3.20	2.70	4.70	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 7:15 AM	301.00	4.40	7.40	3.40	0.00	3.40	3.40	4.70	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 7:30 AM	319.00	4.20	7.40	3.70	0.00	4.20	3.70	5.40	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 7:45 AM	320.00	4.70	7.40	4.80	0.00	4.00	4.80	5.50	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 8:00 AM	310.00	4.30	7.00	5.00	0.00	4.30	5.00	5.80	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 8:15 AM	325.00	4.60	7.30	5.70	0.00	4.40	5.70	6.10	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 8:30 AM	335.00	3.60	7.00	6.20	0.00	4.60	6.20	5.80	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 8:45 AM	321.00	5.80	6.80	6.30	0.00	4.40	6.30	5.30	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 9:00 AM	320.00	5.90	7.40	7.70	0.30	4.50	7.70	4.80	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 9:15 AM	354.00	7.90	7.80	9.40	1.60	4.40	9.40	4.60	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 9:30 AM	338.00	5.70	8.10	10.80	2.70	4.90	10.80	4.80	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 9:45 AM	344.00	5.70	7.90	9.60	1.70	4.80	9.60	4.20	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 10:00 AM	335.00	4.50	7.50	7.70	0.20	4.00	7.70	3.80	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 10:15 AM	350.00	7.80	6.70	7.10	0.40	3.70	7.10	3.20	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 10:30 AM	350.00	5.00	6.30	5.30	0.00	3.30	5.30	2.70	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 10:45 AM	340.00	5.30	4.70	4.10	0.00	2.80	4.10	2.80	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 11:00 AM	351.00	5.60	4.30	4.40	0.10	3.10	4.40	3.10	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/13/14 11:15 AM	352.00	6.50	3.50	4.40	0.90	3.10	4.40	2.90	3.50	0.00	0.00	0.00	0.00</					



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
9/13/14 7:00 PM	104.00	1.90	9.60	6.90	0.00	5.60	9.60	4.50	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/13/14 7:15 PM	129.00	2.50	9.90	8.70	0.00	9.00	9.90	5.70	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/13/14 7:30 PM	131.00	2.40	16.40	11.30	0.00	10.50	16.40	6.90	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/13/14 7:45 PM	135.00	2.10	4.70	6.40	1.70	6.50	4.70	4.70	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/13/14 8:00 PM	164.00	0.60	4.40	2.30	0.00	4.00	4.40	5.30	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/13/14 8:15 PM	168.00	1.90	22.20	2.20	0.00	4.60	22.20	7.80	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/13/14 8:30 PM	159.00	2.00	2.60	2.50	0.00	3.20	2.60	6.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/13/14 8:45 PM	153.00	1.90	3.40	1.40	0.00	3.90	3.40	6.50	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/13/14 9:00 PM	146.00	2.20	6.20	1.20	0.00	4.20	6.20	7.10	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/13/14 9:15 PM	158.00	2.10	13.60	3.30	0.00	5.70	13.60	8.90	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/13/14 9:30 PM	144.00	2.10	11.80	4.40	0.00	7.30	11.80	9.10	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/13/14 9:45 PM	146.00	2.20	11.00	3.20	0.00	6.50	11.00	8.90	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/13/14 10:00 PM	159.00	1.40	16.60	3.60	0.00	7.50	16.60	9.50	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/13/14 10:15 PM	209.00	1.70	9.90	7.30	0.00	7.30	15.50	9.90	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/13/14 10:30 PM	163.00	1.70	25.10	5.20	0.00	7.70	25.10	10.40	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/13/14 10:45 PM	184.00	1.20	13.30	14.00	0.70	14.00	27.90	13.30	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/13/14 11:00 PM	163.00	1.30	41.40	20.20	0.00	19.30	41.40	18.00	20.20	0.00	1.10	1.10	1.10	0.00	0.00	0.00
9/13/14 11:15 PM	172.00	1.50	41.90	13.60	0.00	12.90	41.90	15.90	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/13/14 11:30 PM	179.00	1.70	22.90	9.60	0.00	10.20	22.90	16.00	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/13/14 11:45 PM	168.00	1.50	19.60	8.10	0.00	9.20	19.60	14.50	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 12:00 AM	171.00	1.10	13.90	6.80	0.00	7.20	13.90	11.80	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 12:15 AM	180.00	1.50	12.30	6.90	0.00	6.90	14.10	12.30	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 12:30 AM	188.00	1.00	14.10	0.00	0.00	0.00	12.50	14.10	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 12:45 AM	175.00	1.40	13.60	5.70	0.00	8.00	13.60	20.60	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 1:00 AM	217.00	0.80	20.10	8.50	0.00	8.50	17.60	20.10	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 1:15 AM	219.00	0.90	22.30	8.80	0.00	8.80	26.80	22.30	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 1:30 AM	198.00	1.10	22.40	9.30	0.00	9.30	29.30	22.40	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 1:45 AM	191.00	0.80	24.30	11.00	0.00	11.00	28.20	24.30	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 2:00 AM	195.00	0.60	27.10	11.90	0.00	11.90	30.20	27.10	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 2:15 AM	215.00	0.50	52.70	14.80	0.00	14.80	49.30	52.70	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 2:30 AM	222.00	0.70	56.70	57.40	0.70	57.40	80.90	56.70	70.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 2:45 AM	206.00	0.80	65.70	45.10	0.00	45.10	139.10	65.70	49.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 3:00 AM	206.00	0.70	71.60	31.70	0.00	31.70	119.10	71.60	47.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 3:15 AM	207.00	0.80	63.90	31.40	0.00	31.40	94.20	63.90	40.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 3:30 AM	202.00	1.30	59.60	32.70	0.00	32.70	76.80	59.60	30.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 3:45 AM	179.00	1.90	67.70	25.10	0.00	30.50	67.70	51.10	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 4:00 AM	146.00	1.40	55.60	22.20	0.00	24.40	55.60	41.80	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 4:15 AM	235.00	1.60	41.60	23.50	0.00	23.50	50.30	41.60	31.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 4:30 AM	192.00	1.00	32.50	20.00	0.00	20.00	33.40	32.50	32.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 4:45 AM	178.00	1.80	33.60	19.10	0.00	20.00	33.60	29.40	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 5:00 AM	157.00	1.40	26.20	13.10	0.00	16.20	26.20	26.10	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 5:15 AM	183.00	1.10	24.00	17.30	0.00	17.30	25.90	24.00	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 5:30 AM	183.00	1.90	23.20	17.80	0.00	17.80	20.40	23.20	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 5:45 AM	195.00	1.80	20.20	15.30	0.00	15.30	18.40	20.20	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 6:00 AM	162.00	1.70	15.70	10.10	0.00	13.90	15.70	21.10	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 6:15 AM	191.00	2.10	18.30	14.10	0.00	14.10	14.80	18.30	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 6:30 AM	152.00	2.10	13.80	11.60	0.00	12.00	13.80	18.00	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 6:45 AM	155.00	1.60	13.80	10.90	0.00	12.20	13.80	17.90	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 7:00 AM	161.00	1.70	12.50	9.90	0.00	11.40	12.50	17.70	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 7:15 AM	208.00	2.20	15.30	11.40	0.00	11.40	10.90	15.30	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 7:30 AM	190.00	1.70	16.10	9.80	0.00	9.80	10.00	16.10	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 7:45 AM	195.00	1.80	14.30	8.30	0.00	8.30	8.70	14.30	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 8:00 AM	0.00	0.00	0.00	0.00	0.00	8.40	8.80	14.70	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 8:15 AM	0.00	0.00	0.00	0.00	0.00	8.70	9.20	14.00	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 8:30 AM	22.00	1.30	9.30	13.80	4.50	9.30	9.70	13.80	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 8:45 AM	188.00	2.00	14.80	9.30	0.00	9.30	8.90	14.80	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 9:00 AM	202.00	2.80	13.90	8.50	0.00	8.50	8.90	13.90	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 9:15 AM	215.00	2.30	11.60	8.20	0.00	8.20	7.80	11.60	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 9:30 AM	188.00	3.00	10.70	7.50	0.00	7.50	7.70	10.70	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 9:45 AM	216.00	3.80	10.10	6.70	0.00	6.70	5.90	10.10	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 10:00 AM	223.00	4.80	7.50	6.00	0.00	6.00	4.60	7.50	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 10:15 AM	254.00	3.00	7.10	5.80	0.00	5.80	4.00	7.10	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 10:30 AM	223.00	3.40	6.10	5.00	0.00	5.00	3.30	6.10	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 10:45 AM	253.00	3.10	4.40	4.40	0.00	4.40	2.00	4.40	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 11:00 AM	248.00	0.70	3.50	3.30	0.00	3.30	0.90	3.50	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 11:15 AM	251.00	2.10	2.90	3.50	0.60	3.50	0.90	2.90	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 11:30 AM	248.00	4.20	2.50	3.30	0.80	3.30	0.90	2.50	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 11:45 AM	223.00	2.70	2.50	3.60	1.10	3.60	0.70	2.50	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 12:00 PM	202.00	5.40	2.60	3.30	0.70	3.30	0.90	2.60	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/14 12:15 PM	195.00	4.10	2.30	3.80	1.50	3.80	1.10									



**US Army Corps
of Engineers®**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
September 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
9/15/14 9:30 PM	7.00	5.30	10.90	18.40	7.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/15/14 9:45 PM	17.00	5.80	10.90	18.40	7.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/15/14 10:00 PM	27.00	7.20	10.90	18.40	7.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/15/14 10:15 PM	15.00	7.30	10.90	18.40	7.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/15/14 10:30 PM	13.00	9.90	10.90	18.40	7.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/15/14 10:45 PM	354.00	8.30	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/15/14 11:00 PM	346.00	6.80	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/15/14 11:15 PM	343.00	4.30	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/15/14 11:30 PM	335.00	4.70	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/15/14 11:45 PM	330.00	2.50	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 12:00 AM	323.00	3.10	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 12:15 AM	330.00	3.90	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 12:30 AM	344.00	4.20	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 12:45 AM	343.00	4.00	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 1:00 AM	347.00	3.60	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 1:15 AM	333.00	3.50	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 1:30 AM	347.00	3.50	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 1:45 AM	331.00	3.60	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 2:00 AM	325.00	3.60	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 2:15 AM	264.00	2.10	18.40	10.90	0.00	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 2:30 AM	269.00	2.30	18.40	10.90	0.00	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 2:45 AM	258.00	2.60	18.40	10.90	0.00	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 3:00 AM	263.00	2.50	18.40	10.90	0.00	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 3:15 AM	273.00	2.40	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 3:30 AM	284.00	2.20	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 3:45 AM	292.00	3.00	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 4:00 AM	295.00	3.30	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 4:15 AM	300.00	3.00	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 4:30 AM	286.00	3.20	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 4:45 AM	273.00	2.90	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 5:00 AM	297.00	3.00	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 5:15 AM	312.00	3.40	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 5:30 AM	310.00	3.30	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 5:45 AM	311.00	4.20	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 6:00 AM	295.00	2.80	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 6:15 AM	270.00	2.70	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 6:30 AM	293.00	2.50	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 6:45 AM	288.00	1.80	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 7:00 AM	278.00	1.50	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 7:15 AM	292.00	2.10	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 7:30 AM	269.00	1.70	18.40	10.90	0.00	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 7:45 AM	286.00	2.40	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 8:00 AM	273.00	2.10	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 8:15 AM	303.00	1.90	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 8:30 AM	313.00	1.80	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 8:45 AM	307.00	1.80	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 9:00 AM	313.00	2.80	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 9:15 AM	308.00	1.70	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 9:30 AM	345.00	2.10	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 9:45 AM	357.00	1.90	5.00	14.50	9.50	10.90	14.50	18.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 10:30 AM	286.00	2.00	9.90	14.30	4.40	15.40	14.30	15.70	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 10:45 AM	354.00	2.10	7.10	13.00	5.90	15.70	13.00	13.50	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 11:00 AM	343.00	1.60	6.30	11.30	5.00	14.00	11.30	11.70	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 11:15 AM	201.00	0.70	10.50	10.30	0.00	10.30	9.40	10.50	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 11:30 AM	22.00	1.20	10.80	10.60	0.00	10.80	10.80	10.60	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 11:45 AM	4.00	3.30	11.30	10.70	0.00	11.30	9.80	10.70	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 12:00 PM	43.00	1.40	8.30	7.00	0.00	8.30	6.20	7.00	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 12:15 PM	1.00	3.80	7.10	6.40	0.00	7.10	2.60	6.40	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 12:30 PM	12.00	2.60	7.90	4.80	0.00	7.90	2.40	4.80	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 12:45 PM	73.00	2.00	4.60	4.20	0.00	4.60	1.80	4.20	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 1:00 PM	53.00	2.20	4.60	4.00	0.00	4.60	0.60	4.00	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 1:15 PM	45.00	3.30	6.90	3.70	0.00	6.90	3.70	3.70	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 1:30 PM	71.00	1.60	9.20	4.40	0.00	9.20	3.20	4.40	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 1:45 PM	327.00	0.80	12.10	6.90	0.00	10.70	6.90	5.30	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 2:00 PM	8.00	0.80	14.30	6.70	0.00	14.30	12.90	6.70	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 2:15 PM	62.00	1.30	12.60	7.00	0.00	12.60	6.10	7.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 2:30 PM	95.00	2.70	8.30	10.40	2.10	13.80	8.30	7.80	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 2:45 PM	112.00	2.60	11.50	13.60	2.10	18.60	11.50	9.40	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 3:00 PM	295.00	1.10	12.50	11.90	0.00	21.00	11.90	10.40	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/16/14 3:15 PM	299.00	1.10	20.40	17.50														



**US Army Corps
of Engineers®**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
September 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
9/16/14 11:15 PM	116.00	1.80	31.30	14.60	0.00	29.70	31.30	31.10	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/16/14 11:30 PM	131.00	2.00	30.00	13.10	0.00	44.20	30.00	34.30	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/16/14 11:45 PM	147.00	2.00	36.10	16.40	0.00	52.10	36.10	35.30	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 12:00 AM	144.00	1.80	41.60	14.30	0.00	35.60	41.60	35.50	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 12:15 AM	154.00	2.20	33.20	13.30	0.00	27.70	33.20	37.00	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 12:30 AM	139.00	2.20	32.80	14.70	0.00	32.20	32.80	37.40	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 12:45 AM	140.00	2.10	33.70	16.20	0.00	35.40	33.70	39.10	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 1:00 AM	152.00	2.30	31.10	11.80	0.00	30.80	31.10	35.20	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 1:15 AM	163.00	2.00	32.00	14.00	0.00	29.60	32.00	32.70	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 1:30 AM	167.00	2.30	26.40	14.10	0.00	33.20	26.40	30.90	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 1:45 AM	174.00	2.00	33.30	17.80	0.00	44.40	33.30	32.70	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 2:00 AM	175.00	2.10	37.30	14.60	0.00	30.90	37.30	33.70	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 2:15 AM	176.00	1.30	30.40	14.60	0.00	28.70	30.40	33.90	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 2:30 AM	166.00	2.20	32.70	12.90	0.00	32.40	32.70	35.60	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 2:45 AM	160.00	2.00	28.80	12.20	0.00	23.60	28.80	33.30	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 3:00 AM	171.00	2.10	28.30	13.90	0.00	21.90	28.30	33.60	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 3:15 AM	175.00	1.90	28.10	13.80	0.00	23.20	28.10	36.60	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 3:30 AM	174.00	1.40	27.70	12.40	0.00	22.10	27.70	36.00	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 3:45 AM	175.00	1.70	26.90	19.50	0.00	22.10	26.90	36.30	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 4:00 AM	190.00	1.80	31.30	22.20	0.00	22.20	28.00	31.30	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 4:15 AM	182.00	1.60	31.20	20.40	0.00	20.40	26.40	31.20	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 4:30 AM	185.00	1.60	33.20	18.40	0.00	18.40	24.40	33.20	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 4:45 AM	180.00	2.00	32.90	18.00	0.00	18.00	23.70	32.90	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 5:00 AM	176.00	1.40	22.70	12.80	0.00	16.70	22.70	33.20	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 5:15 AM	166.00	0.90	21.80	13.50	0.00	17.10	21.80	35.40	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 5:30 AM	173.00	1.20	22.60	13.60	0.00	17.60	22.60	38.50	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 5:45 AM	178.00	1.20	24.60	11.80	0.00	19.40	24.60	29.50	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 6:00 AM	176.00	1.20	27.10	12.10	0.00	19.90	27.10	30.70	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 6:15 AM	192.00	1.40	33.40	20.10	0.00	20.10	27.20	33.40	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 6:30 AM	194.00	1.20	34.20	20.60	0.00	20.60	27.20	34.20	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 6:45 AM	207.00	1.90	34.50	21.60	0.00	21.60	29.90	34.50	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 7:00 AM	207.00	1.60	36.00	24.40	0.00	24.40	31.30	36.00	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 7:15 AM	198.00	1.90	51.00	26.80	0.00	26.80	33.50	51.00	26.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 7:30 AM	219.00	1.90	39.40	25.30	0.00	25.30	37.60	39.40	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 7:45 AM	212.00	1.00	40.10	26.50	0.00	26.50	38.70	40.10	26.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 8:00 AM	208.00	1.30	40.60	28.10	0.00	28.10	40.90	40.60	28.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 8:15 AM	203.00	1.90	36.50	27.50	0.00	27.50	42.90	36.50	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 8:30 AM	191.00	1.40	34.70	28.40	0.00	28.40	39.90	34.70	28.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 8:45 AM	248.00	1.10	33.80	28.20	0.00	28.20	38.00	33.80	28.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 9:00 AM	250.00	1.60	31.20	28.10	0.00	28.10	32.20	31.20	28.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 9:15 AM	243.00	1.50	30.80	29.30	0.00	29.30	28.90	30.80	29.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 9:30 AM	235.00	1.40	28.00	30.30	2.30	30.30	30.40	28.00	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 9:45 AM	226.00	2.00	25.80	27.40	1.60	27.40	24.20	25.80	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 10:00 AM	208.00	1.80	24.40	26.80	2.40	26.80	23.80	24.40	26.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 10:15 AM	248.00	1.10	23.00	28.80	5.80	28.80	23.70	23.00	28.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 10:30 AM	281.00	2.40	24.20	23.10	0.00	25.80	23.10	19.40	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 10:45 AM	222.00	3.10	16.30	21.60	5.30	21.60	19.80	16.30	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 11:00 AM	226.00	2.80	12.70	20.70	8.00	20.70	9.90	12.70	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 11:15 AM	352.00	0.40	4.10	5.00	0.90	13.10	5.00	9.80	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 11:30 AM	322.00	1.10	5.80	4.10	0.00	8.00	4.10	7.70	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 11:45 AM	251.00	2.70	7.50	9.40	1.90	9.40	4.60	7.50	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 12:00 PM	297.00	0.80	7.00	2.40	0.00	10.50	2.40	6.10	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 12:15 PM	246.00	1.20	6.60	8.20	1.60	8.20	3.60	6.60	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 12:30 PM	334.00	2.30	6.70	3.80	0.00	9.20	3.80	6.50	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 12:45 PM	285.00	2.50	9.00	5.80	0.00	9.10	5.80	6.50	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 1:00 PM	319.00	2.80	9.30	5.40	0.00	12.80	5.40	7.20	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 1:15 PM	257.00	3.50	6.60	9.70	3.10	9.70	5.90	6.60	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 1:30 PM	210.00	1.80	6.50	11.20	4.70	11.20	4.50	6.50	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 1:45 PM	277.00	2.00	7.30	5.70	0.00	8.80	5.70	6.20	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 2:00 PM	241.00	2.40	6.30	9.30	3.00	9.30	3.20	6.30	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 2:15 PM	215.00	3.90	6.30	9.20	2.90	9.20	3.70	6.30	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 2:30 PM	284.00	4.80	7.70	3.50	0.00	9.70	3.50	6.50	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 2:45 PM	241.00	1.40	6.60	11.40	4.80	11.40	4.40	6.60	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 3:00 PM	239.00	3.50	6.90	10.70	3.80	10.70	4.30	6.90	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 3:15 PM	321.00	2.00	6.30	3.00	0.00	9.70	3.00	6.70	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 3:30 PM	88.00	1.00	9.40	6.60	0.00	9.40	3.60	6.60	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 3:45 PM	81.00	1.90	0.00	6.90	0.00	0.00	4.10	6.90	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 4:00 PM	55.00	3.20	10.30	6.70	0.00	10.30	3.60	6.70	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/14 4:15 PM	109.00	2.80	7.40	6.20	0.00	9.90	7.40	6.70	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1																



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September 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
9/18/14 12:45 AM	194.00	1.20	51.20	44.70	0.00	44.70	42.70	51.20	22.50	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 1:00 AM	218.00	1.00	49.40	40.40	0.00	40.40	39.00	49.40	19.70	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 1:15 AM	227.00	1.00	43.80	33.80	0.00	33.80	40.80	43.80	19.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 1:30 AM	207.00	0.70	48.50	35.80	0.00	35.80	44.80	48.50	19.80	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 1:45 AM	197.00	0.80	48.00	39.40	0.00	39.40	43.40	48.00	21.10	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 2:00 AM	182.00	0.80	43.60	32.70	0.00	32.70	38.90	43.60	20.50	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 2:15 AM	176.00	0.80	41.20	22.00	0.00	34.10	41.20	48.10	22.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 2:30 AM	211.00	0.70	49.40	34.50	0.00	34.50	43.50	49.40	21.40	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 2:45 AM	190.00	0.90	48.20	34.80	0.00	34.80	42.70	48.20	19.80	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 3:00 AM	203.00	0.80	47.50	31.90	0.00	31.90	41.10	47.50	18.10	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 3:15 AM	227.00	1.00	48.50	32.70	0.00	32.70	39.90	48.50	16.70	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 3:30 AM	236.00	0.90	47.80	31.00	0.00	31.00	39.70	47.80	16.30	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 3:45 AM	216.00	1.30	47.50	29.50	0.00	29.50	39.40	47.50	15.30	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 4:00 AM	216.00	1.30	45.10	30.40	0.00	30.40	43.90	45.10	15.60	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 4:15 AM	225.00	1.20	46.30	31.60	0.00	31.60	42.00	46.30	16.40	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 4:30 AM	208.00	0.80	45.70	32.00	0.00	32.00	41.20	45.70	17.40	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 4:45 AM	205.00	0.70	46.60	32.20	0.00	32.20	43.80	46.60	19.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 5:00 AM	203.00	0.70	51.50	30.20	0.00	30.20	45.50	51.50	18.60	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 5:15 AM	261.00	0.40	50.50	29.90	0.00	29.90	42.20	50.50	17.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 5:30 AM	0.00	0.00	0.00	0.00	0.00	28.60	39.80	46.70	15.20	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 5:45 AM	153.00	0.30	37.90	16.50	0.00	28.80	37.90	44.30	16.50	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 6:00 AM	178.00	0.50	36.80	17.30	0.00	27.30	36.80	40.20	17.30	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 6:15 AM	228.00	1.10	37.10	27.00	0.00	27.00	36.50	37.10	18.90	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 6:30 AM	346.00	1.80	17.30	36.70	19.40	28.30	36.70	40.30	17.30	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 6:45 AM	324.00	1.60	17.80	36.80	19.00	27.00	36.80	42.80	17.80	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 7:00 AM	358.00	3.80	16.20	37.40	21.20	28.60	37.40	44.40	16.20	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 7:15 AM	358.00	1.60	16.80	41.20	24.40	35.90	41.20	49.10	16.80	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 7:30 AM	255.00	0.70	49.30	35.10	0.00	35.10	48.40	49.30	20.20	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 7:45 AM	259.00	1.50	56.00	39.80	0.00	39.80	71.50	56.00	23.30	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 8:00 AM	214.00	0.90	51.00	37.10	0.00	37.10	62.50	51.00	23.80	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 8:15 AM	203.00	1.30	44.80	35.40	0.00	35.40	47.40	44.80	23.90	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 8:30 AM	206.00	1.60	44.30	40.10	0.00	40.10	45.30	44.30	23.80	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 8:45 AM	253.00	1.80	46.10	42.30	0.00	42.30	39.50	46.10	25.20	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 9:00 AM	236.00	1.70	45.10	43.80	0.00	43.80	45.50	45.10	21.50	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 9:15 AM	301.00	1.70	25.10	40.60	15.50	38.50	40.60	46.90	25.10	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 9:30 AM	3.00	0.70	48.60	48.60	0.00	48.60	47.70	48.60	24.10	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 9:45 AM	155.00	2.90	54.20	21.90	0.00	47.50	54.20	47.40	21.90	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 10:00 AM	158.00	2.90	62.60	34.90	0.00	69.70	62.60	55.40	34.90	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 10:15 AM	124.00	3.10	65.50	26.00	0.00	61.50	65.50	55.20	26.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 10:30 AM	52.00	4.00	65.50	54.10	0.00	65.50	60.40	54.10	24.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 10:45 AM	61.00	4.10	61.40	54.00	0.00	61.40	77.70	54.00	23.90	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 11:00 AM	115.00	4.60	54.90	31.20	0.00	48.70	54.90	59.00	31.20	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 11:15 AM	85.00	3.00	22.50	27.10	4.60	22.50	16.50	27.10	10.90	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 11:30 AM	110.00	4.40	7.40	4.90	0.00	11.20	7.40	12.90	4.90	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 11:45 AM	114.00	4.10	9.80	7.50	0.00	12.80	9.80	13.20	7.50	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 12:00 PM	127.00	3.40	6.70	6.60	0.00	13.80	6.70	12.00	6.60	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 12:15 PM	132.00	3.70	13.20	9.60	0.00	0.00	13.20	15.80	9.60	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 12:30 PM	123.00	3.50	11.20	10.50	0.00	18.10	11.20	14.60	10.50	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 12:45 PM	28.00	4.60	12.80	11.90	0.00	12.80	7.80	11.90	10.10	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 1:00 PM	39.00	6.00	13.10	10.90	0.00	13.10	4.90	10.90	8.40	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 1:15 PM	12.00	6.60	13.10	10.70	0.00	13.10	6.00	10.70	9.20	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 1:30 PM	42.00	6.20	19.00	11.80	0.00	19.00	5.10	11.80	10.70	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 1:45 PM	30.00	5.00	16.60	12.90	0.00	16.60	6.90	12.90	16.80	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 2:00 PM	11.00	6.60	19.60	14.30	0.00	19.60	9.20	14.30	14.80	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 2:15 PM	18.00	7.40	18.80	14.20	0.00	18.80	9.00	14.20	6.90	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 2:30 PM	13.00	6.30	10.40	16.20	5.80	10.40	10.30	16.20	6.80	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 2:45 PM	17.00	7.20	15.70	13.80	0.00	15.70	6.50	13.80	6.90	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 3:00 PM	9.00	7.70	14.50	14.30	0.00	14.50	11.30	14.30	6.90	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 3:15 PM	13.00	7.80	13.00	19.00	6.00	13.00	20.50	19.00	11.60	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 3:30 PM	19.00	6.60	12.00	20.60	8.60	12.00	15.30	20.60	9.10	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 3:45 PM	18.00	7.60	18.50	22.30	3.80	18.50	15.10	22.30	10.60	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 4:00 PM	12.00	8.00	21.10	22.90	1.80	21.10	12.20	22.90	7.60	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 4:15 PM	25.00	6.40	18.90	23.30	4.40	18.90	13.50	23.30	6.90	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 4:30 PM	31.00	7.70	21.20	29.40	8.20	21.20	17.20	29.40	8.30	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 4:45 PM	21.00	7.80	15.70	25.40	9.70	15.70	14.70	25.40	7.70	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 5:00 PM	25.00	6.50	13.70	27.20	13.50	13.70	14.00	27.20	7.90	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 5:15 PM	26.00	5.50	15.70	39.20	23.50	15.70	20.20	39.20	8.40	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 5:30 PM	20.00	6.60	20.80	43.80	23.00	20.80	25.20	43.80	8.40	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 5:45 PM	34.00	5.60	19.20	44.90	25.70	19.20	29.10	44.90	8.40	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 6:00 PM	12.00	5.50	19.40	44.90	25.50	19.40	31.10	44.90	7.60	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 6:15 PM	37.00	6.70	15.50	50.40	34.90	15.50	30.10	50.40	8.40	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 6:30 PM	27.00	5.90	16.30	44.90	28.60	16.30	31.60	44.90	7.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/18/14 6:45 PM	19.00	6.10	16.20	42.00	25.80	16.20	29.									



**US Army Corps
of Engineers®**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
September 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
9/19/14 2:00 AM	145.00	3.50	17.40	17.80	0.40	25.50	17.40	19.70	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 2:15 AM	150.00	4.30	13.80	15.00	1.20	18.10	13.80	17.30	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 2:30 AM	149.00	3.00	13.30	13.70	0.40	16.20	13.30	17.50	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 2:45 AM	159.00	3.30	14.30	12.10	0.00	17.20	14.30	19.40	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 3:00 AM	153.00	3.60	14.80	13.40	0.00	18.40	14.80	18.40	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 3:15 AM	146.00	3.70	15.20	13.40	0.00	17.30	15.20	19.30	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 3:30 AM	150.00	3.60	15.20	11.60	0.00	18.50	15.20	19.70	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 3:45 AM	157.00	3.60	19.00	10.50	0.00	16.70	19.00	21.00	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 4:00 AM	146.00	4.10	18.50	12.60	0.00	16.60	18.50	19.60	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 4:15 AM	145.00	4.20	20.80	8.60	0.00	17.00	20.80	19.80	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 4:30 AM	146.00	4.70	19.60	10.20	0.00	16.50	19.60	20.10	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 4:45 AM	160.00	3.50	16.30	11.50	0.00	16.20	16.30	19.70	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 5:00 AM	154.00	4.00	16.20	10.90	0.00	16.80	16.20	19.90	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 5:15 AM	148.00	3.40	13.40	9.30	0.00	15.70	13.40	19.70	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 5:30 AM	146.00	3.20	13.40	9.50	0.00	15.40	13.40	21.60	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 5:45 AM	151.00	2.60	15.10	8.60	0.00	17.70	15.10	22.50	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 6:00 AM	147.00	3.30	13.40	8.10	0.00	16.50	13.40	21.30	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 6:15 AM	149.00	3.20	13.20	8.30	0.00	17.40	13.20	25.00	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 6:30 AM	153.00	3.70	14.20	8.50	0.00	16.30	14.20	23.10	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 6:45 AM	156.00	3.50	13.70	7.90	0.00	17.10	13.70	24.10	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 7:00 AM	147.00	4.60	14.20	8.00	0.00	20.80	14.20	23.80	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 7:15 AM	139.00	4.30	14.50	8.30	0.00	17.30	14.50	25.00	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 7:30 AM	158.00	4.60	19.40	8.80	0.00	31.70	19.40	24.40	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 7:45 AM	148.00	3.70	18.30	9.00	0.00	24.20	18.30	26.30	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 8:00 AM	147.00	3.70	18.40	10.20	0.00	22.80	18.40	25.10	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 8:15 AM	147.00	4.20	21.70	9.80	0.00	18.70	21.70	24.00	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 8:30 AM	162.00	3.40	15.90	9.80	0.00	18.80	15.90	22.30	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 8:45 AM	151.00	4.20	17.20	9.70	0.00	18.00	17.20	19.50	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 9:00 AM	173.00	3.50	16.90	10.00	0.00	20.10	16.90	19.30	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 9:15 AM	176.00	4.60	16.20	10.60	0.00	19.00	16.20	16.70	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 9:30 AM	163.00	4.40	14.80	9.30	0.00	19.50	14.80	16.10	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 9:45 AM	198.00	4.70	15.70	18.80	3.10	18.80	14.20	15.70	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 10:00 AM	163.00	3.90	12.70	8.90	0.00	17.10	12.70	15.00	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 10:15 AM	187.00	3.60	14.30	19.40	5.10	19.40	12.30	14.30	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 10:30 AM	148.00	4.50	10.10	8.80	0.00	14.80	10.10	12.60	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 10:45 AM	147.00	4.50	10.70	9.30	0.00	15.50	10.70	11.30	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 11:00 AM	180.00	5.00	11.00	14.50	3.50	14.50	12.00	11.00	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 11:15 AM	183.00	6.50	11.00	15.00	4.00	15.00	9.40	11.00	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 11:30 AM	174.00	5.60	9.70	10.70	1.00	16.30	9.70	10.40	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 11:45 AM	194.00	5.00	10.40	14.90	4.50	14.90	15.60	10.40	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 12:00 PM	180.00	5.30	10.10	15.60	5.50	15.60	10.60	10.10	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 12:15 PM	173.00	6.10	8.90	9.90	1.00	16.80	8.90	10.10	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 12:30 PM	192.00	6.70	9.10	13.60	4.50	13.60	7.20	9.10	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 12:45 PM	159.00	7.00	7.20	8.50	1.30	14.50	7.20	8.90	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 1:00 PM	189.00	6.70	7.80	15.40	7.60	15.40	5.90	7.80	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 1:15 PM	159.00	4.50	7.80	8.10	0.30	15.40	7.80	7.40	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 1:30 PM	140.00	7.20	4.70	9.00	4.30	13.10	4.70	6.20	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 1:45 PM	160.00	6.20	4.30	8.50	4.20	13.30	4.30	6.20	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 2:00 PM	192.00	8.30	5.90	12.90	7.00	12.90	4.70	5.90	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 2:15 PM	151.00	5.10	6.00	8.10	2.10	10.80	6.00	5.40	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 2:30 PM	194.00	5.60	5.40	12.30	6.90	12.30	3.60	5.40	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 2:45 PM	189.00	6.30	5.50	12.70	7.20	12.70	5.30	5.50	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 3:00 PM	170.00	5.90	3.20	9.30	6.10	14.90	3.20	5.10	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 3:15 PM	167.00	5.80	5.70	8.30	2.60	16.30	5.70	5.10	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 3:30 PM	153.00	6.60	3.70	8.40	4.70	11.40	3.70	5.00	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 3:45 PM	149.00	7.40	3.20	7.80	4.60	10.40	3.20	5.00	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 4:00 PM	150.00	6.90	3.50	7.70	4.20	9.80	3.50	5.00	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 4:15 PM	153.00	7.00	2.90	7.90	5.00	13.90	2.90	5.10	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 4:30 PM	172.00	6.20	2.70	8.50	5.80	12.80	2.70	5.50	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 4:45 PM	195.00	5.90	5.00	13.50	8.50	13.50	12.40	5.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 5:00 PM	195.00	4.90	5.30	14.50	9.20	14.50	0.00	5.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 5:15 PM	199.00	4.00	5.30	12.60	7.30	12.60	6.70	5.30	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 5:30 PM	182.00	7.00	5.70	16.80	11.10	16.80	6.50	5.70	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 5:45 PM	183.00	5.60	5.90	15.10	9.20	15.10	4.20	5.90	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 6:00 PM	178.00	4.30	4.20	7.30	3.10	11.20	4.20	5.70	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 6:15 PM	183.00	4.30	6.30	14.00	7.70	14.00	3.80	6.30	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 6:30 PM	174.00	4.10	4.00	8.30	4.30	13.60	4.00	6.20	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 6:45 PM	170.00	3.30	4.40	8.80	4.40	14.10	4.40	6.60	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 7:00 PM	177.00	2.80	4.20	8.30	4.10	14.20	4.20	6.80	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/19/14 7:15 PM	169.00	3.90	5.70	8.90	3.20</											



**US Army Corps
of Engineers®**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
September 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
9/20/14 3:15 AM	190.00	5.10	25.00	20.20	0.00	20.20	24.80	25.00	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 3:30 AM	201.00	4.70	24.80	20.30	0.00	20.30	24.80	24.80	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 3:45 AM	195.00	5.00	25.30	20.50	0.00	20.50	25.20	25.30	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 4:00 AM	200.00	4.00	25.60	21.00	0.00	21.00	25.70	25.60	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 4:15 AM	204.00	4.40	25.60	21.40	0.00	21.40	26.60	25.60	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 4:30 AM	200.00	5.30	27.00	22.90	0.00	22.90	26.80	27.00	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 4:45 AM	202.00	4.40	26.60	21.90	0.00	21.90	26.80	26.60	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 5:00 AM	203.00	4.90	27.30	22.10	0.00	22.10	27.70	27.30	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 5:15 AM	206.00	5.00	27.60	22.20	0.00	22.20	27.60	27.60	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 5:30 AM	202.00	4.20	27.80	22.80	0.00	22.80	27.90	27.80	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 5:45 AM	190.00	5.00	27.80	22.70	0.00	22.70	28.20	27.80	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 6:00 AM	203.00	5.30	28.60	23.30	0.00	23.30	29.40	28.60	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 6:15 AM	236.00	5.80	28.90	23.30	0.00	23.30	29.40	28.90	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 6:30 AM	199.00	5.30	29.10	23.50	0.00	23.50	29.70	29.10	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 6:45 AM	207.00	4.60	29.10	23.00	0.00	23.00	30.00	29.10	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 7:00 AM	199.00	4.30	29.50	22.80	0.00	22.80	30.60	29.50	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 7:15 AM	196.00	4.80	30.20	23.20	0.00	23.20	31.60	30.20	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 7:30 AM	206.00	4.90	30.80	23.00	0.00	23.00	30.70	30.80	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 7:45 AM	205.00	3.80	31.60	23.80	0.00	23.80	31.10	31.60	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 8:00 AM	190.00	4.90	32.20	24.10	0.00	24.10	31.90	32.20	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 8:15 AM	205.00	4.80	32.20	24.50	0.00	24.50	33.10	32.20	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 8:30 AM	199.00	5.20	32.00	25.00	0.00	25.00	33.20	32.00	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 8:45 AM	201.00	5.10	32.30	24.80	0.00	24.80	33.50	32.30	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 9:00 AM	203.00	5.40	32.90	25.50	0.00	25.50	34.40	32.90	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 9:15 AM	207.00	5.00	33.50	25.10	0.00	25.10	34.60	33.50	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 9:30 AM	204.00	5.70	33.60	24.70	0.00	24.70	34.20	33.60	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 9:45 AM	209.00	6.40	34.20	24.90	0.00	24.90	34.90	34.20	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 10:00 AM	210.00	6.60	35.60	25.00	0.00	25.00	36.20	35.60	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 10:15 AM	217.00	7.20	36.40	25.70	0.00	25.70	37.90	36.40	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 10:30 AM	203.00	7.30	36.50	26.40	0.00	26.40	40.10	36.50	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 10:45 AM	204.00	5.80	37.50	27.50	0.00	27.50	41.10	37.50	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 11:00 AM	205.00	6.20	36.80	27.60	0.00	27.60	41.50	36.80	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 11:15 AM	207.00	8.90	37.30	28.40	0.00	28.40	41.80	37.30	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 11:30 AM	201.00	7.60	35.30	28.40	0.00	28.40	39.30	35.30	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 11:45 AM	213.00	6.00	33.70	28.50	0.00	28.50	37.50	33.70	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 12:00 PM	197.00	8.90	34.00	28.70	0.00	28.70	37.50	34.00	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 12:15 PM	196.00	8.60	35.50	28.90	0.00	28.90	38.10	35.50	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 12:30 PM	205.00	7.90	35.10	30.40	0.00	30.40	38.70	35.10	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 12:45 PM	225.00	6.40	34.50	29.70	0.00	29.70	37.20	34.50	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 1:00 PM	216.00	6.20	33.80	30.50	0.00	30.50	37.50	33.80	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 1:15 PM	227.00	6.60	32.50	30.90	0.00	30.90	37.50	32.50	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 1:30 PM	209.00	6.90	30.30	31.40	1.10	31.40	36.30	30.30	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 1:45 PM	220.00	6.10	30.30	30.70	0.40	30.70	36.40	30.30	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 2:00 PM	232.00	7.50	29.10	30.70	1.60	30.70	36.10	29.10	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 2:15 PM	234.00	5.50	29.70	31.90	2.20	31.90	35.50	29.70	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 2:30 PM	277.00	3.70	23.90	34.60	10.70	32.30	34.60	30.30	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 2:45 PM	203.00	1.40	29.70	32.20	2.50	32.20	33.70	29.70	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 3:00 PM	229.00	2.10	29.10	31.70	2.60	31.70	32.10	29.10	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 3:15 PM	238.00	2.50	31.50	32.40	0.90	32.40	33.80	31.50	31.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 3:30 PM	217.00	3.40	45.90	31.90	0.00	31.90	44.90	45.90	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 3:45 PM	231.00	5.80	61.80	39.60	0.00	39.60	59.40	61.80	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 4:00 PM	244.00	4.20	87.20	34.30	0.00	34.30	76.90	87.20	30.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 4:15 PM	228.00	3.80	97.40	29.40	0.00	29.40	81.20	97.40	26.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 4:30 PM	228.00	2.10	111.50	30.20	0.00	30.20	84.40	111.50	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 4:45 PM	177.00	1.80	79.20	27.80	0.00	29.40	79.20	129.30	27.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 5:00 PM	188.00	3.70	104.40	22.90	0.00	22.90	56.80	104.40	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 5:15 PM	181.00	3.20	59.50	20.70	0.00	20.70	42.00	59.50	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 5:30 PM	190.00	2.40	43.40	18.50	0.00	18.50	37.20	43.40	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 5:45 PM	208.00	2.00	45.30	18.50	0.00	18.50	34.20	45.30	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 6:00 PM	209.00	2.20	38.60	17.20	0.00	17.20	30.40	38.60	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 6:15 PM	220.00	2.80	35.00	17.30	0.00	17.30	27.70	35.00	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 6:30 PM	217.00	3.40	33.60	17.10	0.00	17.10	26.30	33.60	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 6:45 PM	212.00	2.90	36.50	18.30	0.00	18.30	24.40	36.50	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 7:00 PM	213.00	2.70	41.10	19.70	0.00	19.70	27.60	41.10	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 7:15 PM	225.00	3.30	44.50	20.80	0.00	20.80	28.80	44.50	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 7:30 PM	221.00	2.60	51.90	20.70	0.00	20.70	31.80	51.90	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 7:45 PM	226.00	2.80	59.40	21.10	0.00	21.10	34.50	59.40	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 8:00 PM	225.00	2.20	51.80	20.80	0.00	20.80	31.30	51.80	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/14 8:15 PM	188.00	3.10	43.70	20.50	0.											



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
9/23/14 7:00 AM	194.00	1.40	15.10	11.00	0.00	11.00	12.80	15.10	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 7:15 AM	186.00	1.60	16.00	11.40	0.00	11.40	15.00	16.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 7:30 AM	199.00	1.90	17.30	14.60	0.00	14.60	14.80	17.30	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 7:45 AM	199.00	1.80	17.20	13.70	0.00	13.70	15.30	17.20	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 8:00 AM	203.00	2.00	16.80	12.60	0.00	12.60	24.10	16.80	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 8:15 AM	254.00	2.20	16.80	12.60	0.00	12.60	20.90	16.80	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 8:30 AM	215.00	2.30	15.80	14.10	0.00	14.10	24.60	15.80	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 8:45 AM	227.00	2.80	15.50	15.30	0.00	15.30	19.60	15.50	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 9:00 AM	209.00	2.80	15.60	15.00	0.00	15.00	14.00	15.60	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 9:15 AM	227.00	2.80	15.40	16.10	0.70	16.10	15.50	15.40	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 9:30 AM	223.00	3.80	16.50	17.20	0.70	17.20	21.50	16.50	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 9:45 AM	231.00	3.00	14.70	18.70	4.00	18.70	19.90	14.70	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 10:00 AM	216.00	3.60	12.00	12.80	0.80	12.80	15.90	12.00	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 10:15 AM	233.00	3.80	11.70	13.80	2.10	13.80	15.50	11.70	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 10:30 AM	204.00	3.30	11.70	13.60	1.90	13.60	12.00	11.70	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 10:45 AM	225.00	3.10	11.70	15.10	3.40	15.10	11.00	11.70	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 11:00 AM	217.00	3.10	11.10	13.70	2.60	13.70	13.00	11.10	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 11:15 AM	211.00	2.80	9.70	12.80	3.10	12.80	9.80	9.70	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 11:30 AM	260.00	2.80	8.70	13.50	4.80	13.50	5.60	8.70	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 11:45 AM	228.00	2.70	8.00	11.20	3.20	11.20	4.90	8.00	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 12:00 PM	170.00	2.70	5.40	6.70	1.30	6.70	5.40	7.30	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 12:15 PM	241.00	2.40	7.30	9.70	2.40	9.70	5.40	7.30	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 12:30 PM	236.00	2.30	7.10	9.00	1.90	9.00	4.30	7.10	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 12:45 PM	252.00	2.20	7.70	10.40	2.70	10.40	5.60	7.70	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 1:00 PM	212.00	0.90	7.30	10.30	3.00	10.30	5.60	7.30	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 1:15 PM	182.00	2.70	7.30	9.60	2.30	9.60	5.30	7.30	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 1:30 PM	310.00	1.00	6.60	2.90	0.00	10.50	2.90	7.10	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 1:45 PM	214.00	2.10	6.90	9.20	2.30	9.20	3.00	6.90	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 2:00 PM	295.00	2.30	6.60	2.70	0.00	8.50	2.70	6.50	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 2:15 PM	223.00	3.00	6.90	9.90	3.00	9.90	6.30	6.90	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 2:30 PM	290.00	1.50	7.10	4.70	0.00	11.20	4.70	7.10	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 2:45 PM	257.00	0.40	7.30	11.00	3.70	11.00	2.70	7.30	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 3:00 PM	113.00	2.80	3.00	6.40	3.40	9.90	3.00	7.30	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 3:15 PM	148.00	2.70	3.10	6.10	3.00	10.20	3.10	7.20	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 3:30 PM	120.00	4.10	7.60	6.90	0.00	11.60	7.60	7.50	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 3:45 PM	118.00	4.00	6.50	7.30	0.80	9.60	6.50	7.40	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 4:00 PM	63.00	4.10	9.60	7.80	0.00	9.60	26.60	7.80	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 4:15 PM	109.00	3.60	17.50	17.00	0.00	23.70	17.50	9.40	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 4:30 PM	104.00	2.90	30.80	22.10	0.00	32.60	30.80	11.10	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 4:45 PM	117.00	4.10	32.90	12.80	0.00	20.00	32.90	13.70	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 5:00 PM	121.00	4.40	24.90	12.10	0.00	19.90	24.90	22.30	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 5:15 PM	116.00	5.00	37.20	18.10	0.00	24.70	37.20	22.40	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 5:30 PM	91.00	2.90	28.60	19.20	0.00	32.20	28.60	16.90	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 5:45 PM	92.00	2.50	83.60	13.70	0.00	20.70	83.60	18.60	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 6:00 PM	91.00	2.30	17.50	8.30	0.00	19.50	17.50	14.10	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 6:15 PM	105.00	2.80	13.50	10.20	0.00	20.40	13.50	15.30	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 6:30 PM	95.00	2.20	19.90	9.80	0.00	22.50	19.90	38.30	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 6:45 PM	103.00	2.90	98.60	10.10	0.00	28.60	98.60	45.60	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 7:00 PM	110.00	3.20	78.20	7.60	0.00	16.60	78.20	33.00	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 7:15 PM	72.00	2.80	17.30	46.30	29.00	17.30	71.60	46.30	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 7:30 PM	94.00	2.50	39.00	6.70	0.00	16.10	39.00	27.20	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 7:45 PM	113.00	3.20	37.40	6.70	0.00	18.70	37.40	31.80	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 8:00 PM	120.00	3.30	23.60	5.70	0.00	18.10	23.60	24.70	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 8:15 PM	131.00	3.20	75.70	5.30	0.00	20.30	75.70	25.70	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 8:30 PM	115.00	3.30	117.20	5.90	0.00	18.10	117.20	29.90	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 8:45 PM	101.00	3.00	64.50	6.30	0.00	15.80	64.50	28.80	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 9:00 PM	114.00	1.90	19.10	6.10	0.00	14.20	19.10	23.60	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 9:15 PM	104.00	1.60	21.00	5.70	0.00	14.70	21.00	23.20	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 9:30 PM	102.00	1.40	25.30	6.30	0.00	13.70	25.30	27.80	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 9:45 PM	130.00	2.50	37.70	6.40	0.00	13.90	37.70	42.20	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 10:00 PM	132.00	1.60	52.80	6.50	0.00	13.60	52.80	30.50	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 10:15 PM	134.00	1.30	30.60	6.10	0.00	14.00	30.60	29.50	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 10:30 PM	150.00	1.40	25.50	5.70	0.00	14.00	25.50	32.80	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 10:45 PM	204.00	0.60	34.90	26.00	0.00	26.00	32.70	34.90	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 11:00 PM	115.00	0.30	29.00	12.50	0.00	29.40	29.00	31.10	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 11:15 PM	157.00	0.20	35.50	15.50	0.00	33.10	35.50	32.70	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 11:30 PM	141.00	2.60	48.50	25.20	0.00	41.50	48.50	50.00	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/14 11:45 PM	136.00	2.00	76.00	30.80	0.00	49.80	76.00	57.30	30.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/14 12:00 AM	132.00	2.60	71.70	38.60	0.00	62.50	71.70	58.60	38.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/14 12:15 AM	127.00	2.70</														



**US Army Corps
of Engineers®**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
September 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
9/25/14 9:30 AM	173.00	1.70	58.10	26.30	0.00	73.30	58.10	42.10	26.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 9:45 AM	152.00	2.10	69.90	31.80	0.00	55.20	69.90	35.20	31.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 10:00 AM	183.00	2.90	32.20	54.80	22.60	54.80	55.90	32.20	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 10:15 AM	168.00	2.50	36.30	20.50	0.00	35.90	36.30	35.50	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 10:30 AM	165.00	3.00	33.90	23.00	0.00	36.10	33.90	32.80	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 10:45 AM	201.00	3.60	29.80	38.10	8.30	38.10	32.80	29.80	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 11:00 AM	206.00	2.70	28.80	34.40	5.60	34.40	30.90	28.80	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 11:15 AM	159.00	2.70	22.60	18.30	0.00	27.40	22.60	26.20	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 11:30 AM	151.00	1.50	18.60	14.80	0.00	24.20	18.60	23.50	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 11:45 AM	225.00	1.50	23.30	25.10	1.80	25.10	21.80	23.30	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 12:00 PM	225.00	2.00	22.40	24.20	1.80	24.20	21.30	22.40	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 12:15 PM	170.00	2.50	18.80	12.70	0.00	20.10	18.80	18.80	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 12:30 PM	178.00	1.40	16.30	13.70	0.00	19.80	16.30	18.40	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 12:45 PM	160.00	1.90	13.00	12.20	0.00	19.50	13.00	16.10	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 1:00 PM	129.00	1.60	12.00	11.90	0.00	17.00	12.00	16.10	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 1:15 PM	119.00	2.30	26.40	12.20	0.00	20.60	26.40	15.10	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 1:30 PM	133.00	1.30	10.90	11.60	0.70	20.90	10.90	16.50	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 1:45 PM	165.00	2.40	10.20	12.30	2.10	18.40	10.20	15.40	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 2:00 PM	142.00	4.20	14.00	13.40	0.00	20.90	14.00	16.40	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 2:15 PM	183.00	2.10	14.60	16.90	2.30	16.90	8.90	14.60	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 2:30 PM	213.00	2.90	15.50	17.90	2.40	17.90	8.40	15.50	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 2:45 PM	168.00	3.20	9.10	11.60	2.50	18.20	9.10	14.30	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 3:00 PM	165.00	3.80	9.10	12.70	3.60	22.10	9.10	15.50	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 3:15 PM	207.00	3.20	13.70	17.40	3.70	17.40	9.80	13.70	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 3:30 PM	171.00	3.90	7.40	11.90	4.50	14.70	7.40	12.90	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 3:45 PM	164.00	2.90	6.10	12.00	5.90	15.30	6.10	12.70	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 4:00 PM	153.00	2.50	6.90	12.30	5.40	15.60	6.90	12.90	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 4:15 PM	198.00	1.80	12.90	14.80	1.90	14.80	5.40	12.90	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 4:30 PM	175.00	1.40	5.70	10.90	5.20	15.10	5.70	13.00	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 4:45 PM	119.00	0.50	4.60	10.00	5.40	14.30	4.60	12.50	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 5:00 PM	29.00	3.30	13.50	13.10	0.00	13.50	5.50	13.10	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 5:15 PM	16.00	3.80	15.30	12.90	0.00	15.30	7.90	12.90	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 5:30 PM	24.00	2.60	13.90	12.70	0.00	13.90	6.50	12.70	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 5:45 PM	42.00	1.60	14.70	13.10	0.00	14.70	6.00	13.10	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 6:00 PM	22.00	1.20	33.20	15.50	0.00	33.20	11.50	15.50	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 6:15 PM	37.00	2.60	30.00	26.20	0.00	30.00	29.80	26.20	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 6:30 PM	59.00	2.70	35.70	28.00	0.00	35.70	39.90	28.00	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 6:45 PM	71.00	2.80	54.00	36.40	0.00	54.00	45.10	36.40	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 7:00 PM	105.00	2.10	68.50	24.00	0.00	75.40	68.50	49.10	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 7:15 PM	80.00	3.30	41.90	43.60	1.70	41.90	58.30	43.60	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 7:30 PM	77.00	3.50	42.20	44.90	2.70	42.20	56.30	44.90	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 7:45 PM	84.00	2.50	80.60	52.60	0.00	80.60	73.60	52.60	34.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 8:00 PM	77.00	2.20	44.30	45.50	1.20	44.30	56.80	45.50	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 8:15 PM	61.00	2.80	36.90	67.40	30.50	36.90	101.30	67.40	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 8:30 PM	66.00	2.70	33.50	65.80	32.30	33.50	93.10	65.80	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 8:45 PM	64.00	3.50	27.80	62.10	34.30	27.80	131.60	62.10	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 9:00 PM	62.00	2.70	27.50	54.50	27.00	27.50	78.20	54.50	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 9:15 PM	71.00	3.90	31.90	68.90	37.00	31.90	143.10	68.90	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 9:30 PM	75.00	2.90	36.70	71.40	34.70	36.70	98.70	71.40	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 9:45 PM	89.00	2.00	34.50	69.50	35.00	34.50	72.10	69.50	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 10:00 PM	60.00	1.90	37.80	66.70	28.90	37.80	68.70	66.70	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 10:15 PM	64.00	2.70	33.10	57.50	24.40	33.10	52.60	57.50	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 10:30 PM	69.00	2.90	29.40	49.70	20.30	29.40	69.40	49.70	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 10:45 PM	103.00	1.80	89.20	15.90	0.00	23.30	89.20	65.60	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 11:00 PM	83.00	3.20	21.90	62.00	40.10	21.90	121.70	62.00	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 11:15 PM	0.00	0.00	0.00	0.00	0.00	23.20	50.80	46.60	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 11:30 PM	76.00	3.50	23.40	43.00	19.60	23.40	43.60	43.00	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/14 11:45 PM	77.00	3.80	24.10	47.60	23.50	24.10	80.60	47.60	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 12:00 AM	76.00	3.20	19.50	44.00	24.50	19.50	97.40	44.00	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 12:15 AM	76.00	3.40	21.80	45.70	23.90	21.80	55.50	45.70	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 12:30 AM	81.00	3.10	27.30	37.30	10.00	27.30	37.30	37.30	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 12:45 AM	82.00	2.60	43.70	33.90	0.00	43.70	36.70	33.90	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 1:00 AM	65.00	2.10	25.00	33.40	8.40	25.00	25.70	33.40	28.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 1:15 AM	58.00	2.60	28.00	34.30	6.30	28.00	26.80	34.30	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 1:30 AM	108.00	1.10	25.70	17.20	0.00	21.60	25.70	27.00	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 1:45 AM	97.00	1.30	31.80	18.50	0.00	20.80	31.80	31.30	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 2:00 AM	68.00	1.40	21.20	32.00	10.80	21.20	45.60	32.00	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 2:15 AM	73.00	3.80	19.70	32.70	13.00	19.70	33.50	32.70	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 2:30 AM	100.00	2.60	36.40	18.00	0.00	16.50	36.40	32.3								



**US Army Corps
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Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
September 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
9/26/14 10:45 AM	194.00	1.60	21.70	34.60	12.90	34.60	25.30	21.70	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 11:00 AM	164.00	2.10	21.60	19.20	0.00	33.60	21.60	20.20	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 11:15 AM	165.00	1.80	17.40	17.50	0.10	32.70	17.40	21.00	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 11:30 AM	68.00	0.60	35.90	20.00	0.00	35.90	20.40	20.00	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 11:45 AM	45.00	2.40	27.30	17.90	0.00	27.30	10.90	17.90	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 12:00 PM	73.00	2.60	21.00	15.90	0.00	21.00	9.80	15.90	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 12:15 PM	66.00	2.00	20.10	14.10	0.00	20.10	8.60	14.10	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 12:30 PM	46.00	2.50	22.00	11.60	0.00	22.00	8.60	11.60	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 12:45 PM	43.00	2.90	61.70	23.70	0.00	61.70	41.60	23.70	49.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 1:00 PM	30.00	1.90	71.40	28.80	0.00	71.40	32.40	28.80	38.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 1:15 PM	109.00	2.40	32.10	41.60	9.50	47.70	32.10	21.90	41.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 1:30 PM	111.00	3.60	26.60	38.00	11.40	51.80	26.60	31.40	38.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 1:45 PM	113.00	3.10	18.50	28.10	9.60	48.60	18.50	41.20	28.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 2:00 PM	64.00	3.50	60.80	37.20	0.00	60.80	18.30	37.20	28.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 2:15 PM	67.00	3.50	115.30	48.30	0.00	115.30	57.50	48.30	42.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 2:30 PM	23.00	5.40	105.40	35.30	0.00	105.40	51.90	35.30	33.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 2:45 PM	19.00	5.80	95.80	37.90	0.00	95.80	40.80	37.90	32.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 3:00 PM	20.00	5.40	78.40	32.50	0.00	78.40	37.30	32.50	33.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 3:15 PM	16.00	5.10	76.00	35.70	0.00	76.00	24.50	35.70	27.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 3:30 PM	18.00	4.90	76.80	39.20	0.00	76.80	16.70	39.20	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 3:45 PM	24.00	4.70	64.70	44.60	0.00	64.70	50.10	44.60	31.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 4:00 PM	26.00	3.90	46.80	33.00	0.00	46.80	32.50	33.00	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 4:15 PM	17.00	4.50	25.80	26.50	0.70	25.80	40.40	26.50	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 4:30 PM	28.00	4.00	27.20	28.40	1.20	27.20	34.90	28.40	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 4:45 PM	44.00	3.60	27.20	28.40	1.20	27.20	61.30	28.40	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 5:00 PM	45.00	2.90	25.70	32.70	7.00	25.70	47.40	32.70	29.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 5:15 PM	69.00	1.80	30.70	59.60	28.90	30.70	135.10	59.60	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 5:30 PM	64.00	2.20	42.00	41.80	0.00	42.00	57.30	41.80	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 5:45 PM	79.00	3.10	29.40	35.10	5.70	29.40	130.70	35.10	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 6:00 PM	74.00	3.50	31.30	58.00	26.70	31.30	97.10	58.00	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 6:15 PM	83.00	3.00	41.60	61.10	19.50	41.60	70.20	61.10	28.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 6:30 PM	108.00	1.50	98.10	34.30	0.00	98.10	98.10	34.30	34.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 6:45 PM	110.00	2.30	43.70	42.00	0.00	86.30	43.70	46.30	42.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 7:00 PM	83.00	3.50	42.10	45.50	3.40	42.10	50.20	45.50	46.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 7:15 PM	81.00	3.00	68.10	41.90	0.00	68.10	53.70	41.90	95.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 7:30 PM	78.00	3.60	38.80	60.60	21.80	38.80	83.60	60.60	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 7:45 PM	71.00	4.10	40.70	59.00	18.30	40.70	61.70	59.00	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 8:00 PM	86.00	2.90	30.60	102.50	71.90	30.60	133.20	102.50	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 8:15 PM	79.00	3.00	47.50	59.50	12.00	47.50	56.80	59.50	24.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 8:30 PM	80.00	3.60	37.00	57.40	20.40	37.00	44.30	57.40	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 8:45 PM	77.00	3.50	34.60	53.60	19.00	34.60	40.40	53.60	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 9:00 PM	81.00	2.80	40.30	52.90	12.60	40.30	42.40	52.90	27.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 9:15 PM	73.00	2.60	44.80	63.00	18.20	44.80	57.60	63.00	35.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 9:30 PM	75.00	2.70	45.50	49.80	4.30	45.50	50.10	49.80	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 9:45 PM	71.00	2.70	43.70	57.90	14.20	43.70	57.20	57.90	25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 10:00 PM	78.00	3.50	71.70	53.30	0.00	71.70	50.00	53.30	26.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 10:15 PM	77.00	3.80	42.40	57.00	14.60	42.40	57.30	57.00	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 10:30 PM	69.00	3.50	46.20	51.00	4.80	46.20	69.00	51.00	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 10:45 PM	73.00	3.10	39.40	42.00	2.60	39.40	40.30	42.00	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 11:00 PM	63.00	3.00	35.50	46.20	10.70	35.50	48.90	46.20	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 11:15 PM	55.00	4.20	37.70	40.20	2.50	37.70	34.30	40.20	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 11:30 PM	57.00	2.70	34.80	41.70	6.90	34.80	31.70	41.70	29.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/14 11:45 PM	66.00	1.80	37.90	39.90	2.00	37.90	35.80	39.90	29.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 12:00 AM	84.00	1.20	42.70	41.60	0.00	42.70	37.50	41.60	35.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 12:15 AM	56.00	2.00	39.60	40.80	1.20	39.60	33.00	40.80	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 12:30 AM	126.00	0.40	31.70	19.80	0.00	41.10	31.70	31.10	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 12:45 AM	122.00	2.50	48.50	21.40	0.00	26.50	48.50	35.30	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 1:00 AM	161.00	1.50	56.30	19.90	0.00	25.60	56.30	42.00	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 1:15 AM	163.00	1.70	49.20	22.70	0.00	28.40	49.20	42.80	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 1:30 AM	129.00	2.00	53.80	20.00	0.00	28.80	53.80	46.10	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 1:45 AM	126.00	2.10	59.30	24.70	0.00	35.40	59.30	43.70	24.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 2:00 AM	120.00	2.10	40.40	23.60	0.00	36.70	40.40	42.30	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 2:15 AM	148.00	3.10	45.80	17.60	0.00	28.20	45.80	40.20	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 2:30 AM	156.00	2.90	32.80	17.30	0.00	36.80	32.80	33.70	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 2:45 AM	147.00	2.70	32.10	19.40	0.00	41.10	32.10	30.20	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 3:00 AM	149.00	2.70	33.30	22.10	0.00	44.10	33.30	31.50	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 3:15 AM	151.00	2.70	33.80	22.70	0.00	37.90	33.80	31.90	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 3:30 AM	148.00	3.00	35.00	21.30	0.00	32.50	35.00	32.30	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 3:45 AM	0.00	0.00	0.00	0.00	0.00	32.10	32.60									



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
9/27/14 12:00 PM	348.00	3.50	19.60	27.00	7.40	30.50	27.00	29.80	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 12:15 PM	354.00	3.30	26.40	25.70	0.00	38.70	25.70	27.20	26.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 12:30 PM	348.00	3.50	19.90	38.10	18.20	45.20	38.10	35.70	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 12:45 PM	358.00	4.10	18.80	36.40	17.60	41.80	36.40	33.40	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 1:00 PM	15.00	3.00	48.60	38.50	0.00	48.60	42.40	38.50	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 1:15 PM	358.00	3.60	18.30	44.70	26.40	55.10	44.70	39.00	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 1:30 PM	14.00	3.80	58.00	39.60	0.00	58.00	50.30	39.60	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 1:45 PM	56.00	3.10	45.70	36.40	0.00	45.70	47.30	36.40	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 2:00 PM	19.00	3.70	56.00	46.00	0.00	56.00	66.80	46.00	26.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 2:15 PM	11.00	4.60	88.00	44.60	0.00	88.00	69.40	44.60	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 2:30 PM	13.00	4.30	72.20	62.60	0.00	72.20	69.60	62.60	34.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 2:45 PM	18.00	5.20	70.10	55.60	0.00	70.10	55.80	55.60	34.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 3:00 PM	24.00	4.60	48.70	40.40	0.00	48.70	44.00	40.40	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 3:15 PM	15.00	4.30	38.80	33.00	0.00	38.80	30.60	33.00	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 3:30 PM	24.00	4.80	36.00	31.40	0.00	36.00	29.20	31.40	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 3:45 PM	23.00	4.30	36.70	31.80	0.00	36.70	25.40	31.80	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 4:00 PM	27.00	4.50	32.40	29.70	0.00	32.40	11.20	29.70	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 4:15 PM	20.00	4.60	25.40	31.90	6.50	25.40	11.40	31.90	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 4:30 PM	0.00	0.00	0.00	0.00	0.00	23.80	15.90	30.40	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 4:45 PM	13.00	2.00	22.60	32.10	9.50	22.60	14.80	32.10	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 5:00 PM	28.00	4.30	23.10	28.40	5.30	23.10	12.10	28.40	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 5:15 PM	22.00	2.40	20.20	32.00	11.80	20.20	14.30	32.00	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 5:30 PM	40.00	3.70	24.80	35.70	10.90	24.80	16.70	35.70	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 5:45 PM	38.00	2.70	21.50	33.80	12.30	21.50	15.90	33.80	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 6:00 PM	33.00	2.80	22.70	34.60	11.90	22.70	25.60	34.60	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 6:15 PM	47.00	2.50	24.60	39.30	14.70	24.60	24.80	39.30	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 6:30 PM	58.00	2.90	31.20	48.90	17.70	31.20	50.00	48.90	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 6:45 PM	63.00	2.50	24.50	45.80	21.30	24.50	55.50	45.80	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 7:00 PM	60.00	2.40	48.30	47.90	0.00	48.30	37.10	47.90	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 7:15 PM	41.00	1.90	39.60	57.30	17.70	39.60	57.20	57.30	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 7:30 PM	59.00	2.00	51.90	67.50	15.60	51.90	47.30	67.50	33.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 7:45 PM	83.00	2.20	59.50	60.70	1.20	59.50	48.90	60.70	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 8:00 PM	67.00	3.00	72.20	70.70	0.00	72.20	43.90	70.70	38.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 8:15 PM	64.00	2.60	47.20	74.20	27.00	47.20	50.80	74.20	33.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 8:30 PM	66.00	2.90	68.60	93.50	24.90	68.60	74.20	93.50	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 8:45 PM	84.00	2.50	35.40	60.10	24.70	35.40	41.70	60.10	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 9:00 PM	57.00	2.50	24.00	50.40	26.40	24.00	35.30	50.40	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 9:15 PM	49.00	1.90	20.20	48.60	28.40	20.20	36.30	48.60	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 9:30 PM	48.00	2.50	20.40	47.50	27.10	20.40	34.70	47.50	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 9:45 PM	58.00	2.60	24.80	48.60	23.80	24.80	36.70	48.60	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 10:00 PM	62.00	2.50	42.00	67.30	25.30	42.00	47.50	67.30	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 10:15 PM	60.00	2.20	51.50	71.60	20.10	51.50	50.10	71.60	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 10:30 PM	62.00	1.70	52.10	61.50	9.40	52.10	51.90	61.50	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 10:45 PM	79.00	2.60	52.80	75.30	22.50	52.80	70.30	75.30	25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 11:00 PM	79.00	2.90	52.90	75.20	22.30	52.90	53.80	75.20	38.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 11:15 PM	84.00	3.20	34.50	73.80	39.30	34.50	54.70	73.80	28.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 11:30 PM	71.00	3.40	29.40	60.70	31.30	29.40	55.10	60.70	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/14 11:45 PM	82.00	2.40	31.70	62.00	30.30	31.70	45.80	62.00	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 12:00 AM	72.00	3.40	30.80	51.70	20.90	30.80	39.80	51.70	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 12:15 AM	77.00	3.30	33.10	49.80	16.70	33.10	38.20	49.80	138.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 12:30 AM	72.00	3.10	32.90	42.10	9.20	32.90	35.50	42.10	25.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 12:45 AM	47.00	1.40	26.40	42.90	16.50	26.40	35.80	42.90	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 1:00 AM	74.00	0.60	26.70	46.60	19.90	26.70	36.60	46.60	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 1:15 AM	32.00	0.90	23.90	40.30	16.40	23.90	38.30	40.30	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 1:30 AM	335.00	0.50	16.00	37.00	21.00	24.60	37.00	37.50	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 1:45 AM	225.00	0.90	40.10	35.40	0.00	35.40	36.50	40.10	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 2:00 AM	218.00	1.10	49.70	42.00	0.00	42.00	48.30	49.70	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 2:15 AM	294.00	0.60	14.10	48.30	34.20	42.00	48.30	52.60	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 2:30 AM	321.00	1.70	13.50	53.40	39.90	34.00	53.40	70.70	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 2:45 AM	250.00	1.20	76.80	27.80	0.00	27.80	69.80	76.80	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 3:00 AM	0.00	0.00	0.00	0.00	0.00	26.50	68.00	85.50	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 3:15 AM	0.00	0.00	0.00	0.00	0.00	37.80	57.10	100.60	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 3:30 AM	0.00	0.00	0.00	0.00	0.00	28.50	67.90	100.40	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 3:45 AM	138.00	0.70	63.10	16.60	0.00	33.20	63.10	88.70	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 4:00 AM	191.00	1.10	78.30	36.60	0.00	36.60	60.10	78.30	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 4:15 AM	176.00	0.90	47.70	21.80	0.00	32.60	47.70	71.50	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 4:30 AM	196.00	0.90	57.80	0.00	0.00	0.00	39.00	57.80	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 4:45 AM	192.00	0.90	52.00	25.80	0.00	25.80	34.10	52.00	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 5:00 AM	240.00	0.80	39.40	26.70	0.00	26.70	32.20	39.4								



**US Army Corps
of Engineers®**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
September 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
9/28/14 1:15 PM	354.00	4.10	8.40	12.30	3.90	18.70	12.30	15.80	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 1:30 PM	28.00	4.50	15.40	11.60	0.00	15.40	13.80	11.60	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 1:45 PM	19.00	4.80	14.40	10.00	0.00	14.40	15.30	10.00	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 2:00 PM	22.00	4.40	13.40	8.20	0.00	13.40	5.10	8.20	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 2:15 PM	31.00	5.50	11.70	6.60	0.00	11.70	6.90	6.60	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 2:30 PM	31.00	5.30	16.80	9.30	0.00	16.80	5.20	9.30	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 2:45 PM	33.00	4.90	14.70	6.80	0.00	14.70	5.80	6.80	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 3:00 PM	32.00	4.70	15.90	8.50	0.00	15.90	5.80	8.50	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 3:15 PM	27.00	4.90	0.00	9.40	0.00	0.00	4.20	9.40	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 3:30 PM	23.00	3.50	14.00	7.50	0.00	14.00	3.30	7.50	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 3:45 PM	17.00	3.60	14.50	10.00	0.00	14.50	5.40	10.00	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 4:00 PM	10.00	3.50	15.10	11.00	0.00	15.10	5.10	11.00	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 4:15 PM	4.00	3.20	17.90	11.10	0.00	17.90	7.00	11.10	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 4:30 PM	43.00	3.50	13.40	11.40	0.00	13.40	4.80	11.40	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 4:45 PM	9.00	3.50	20.30	12.30	0.00	20.30	5.80	12.30	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 5:00 PM	17.00	3.10	13.90	10.20	0.00	13.90	5.50	10.20	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 5:15 PM	55.00	3.20	15.70	8.60	0.00	15.70	5.70	8.60	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 5:30 PM	42.00	2.90	27.10	8.60	0.00	27.10	13.50	8.60	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 5:45 PM	108.00	1.20	11.40	10.00	0.00	15.30	11.40	11.80	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 6:00 PM	71.00	1.80	16.00	10.80	0.00	16.00	11.50	10.80	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 6:15 PM	99.00	1.50	17.50	12.80	0.00	19.50	17.50	12.80	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 6:30 PM	79.00	2.50	43.80	14.30	0.00	43.80	14.10	14.30	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 6:45 PM	0.00	0.00	0.00	0.00	0.00	27.00	22.20	21.20	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 7:00 PM	119.00	1.30	19.40	15.90	0.00	36.30	19.40	25.00	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 7:15 PM	115.00	1.00	19.70	25.40	5.70	44.30	19.70	21.40	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 7:30 PM	135.00	1.20	24.60	19.50	0.00	31.10	24.60	23.30	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 7:45 PM	255.00	0.90	25.00	26.10	1.10	26.10	20.80	25.00	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 8:00 PM	201.00	0.60	28.50	24.80	0.00	24.80	20.80	28.50	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 8:15 PM	142.00	0.70	30.70	13.60	0.00	29.60	30.70	34.60	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 8:30 PM	99.00	1.10	29.60	16.00	0.00	33.00	29.60	38.40	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 8:45 PM	170.00	0.60	35.40	14.80	0.00	33.40	35.40	40.30	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 9:00 PM	195.00	1.00	40.40	35.30	0.00	35.30	39.40	40.40	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 9:15 PM	216.00	0.30	48.20	34.20	0.00	34.20	38.30	48.20	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 9:30 PM	206.00	0.70	53.20	28.70	0.00	28.70	45.00	53.20	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 9:45 PM	179.00	0.40	42.90	12.60	0.00	27.70	42.90	57.50	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 10:00 PM	225.00	0.70	58.80	29.30	0.00	29.30	38.40	58.80	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 10:15 PM	200.00	0.50	52.80	28.20	0.00	28.20	42.10	52.80	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 10:30 PM	164.00	0.80	44.00	17.10	0.00	34.30	44.00	59.50	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 10:45 PM	234.00	0.50	65.30	34.50	0.00	34.50	51.20	65.30	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 11:00 PM	211.00	0.50	62.40	40.10	0.00	40.10	59.10	62.40	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 11:15 PM	164.00	0.50	60.20	20.40	0.00	41.40	60.20	65.90	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 11:30 PM	272.00	1.30	20.40	61.30	40.90	26.20	61.30	68.70	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/14 11:45 PM	189.00	0.80	71.70	35.60	0.00	35.60	65.20	71.70	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 12:00 AM	230.00	0.70	67.30	41.40	0.00	41.40	69.20	67.30	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 12:15 AM	256.00	1.30	78.60	39.30	0.00	39.30	62.90	78.60	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 12:30 AM	206.00	0.90	70.90	34.00	0.00	34.00	67.20	70.90	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 12:45 AM	223.00	1.10	74.20	37.50	0.00	37.50	100.70	74.20	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 1:00 AM	203.00	0.80	84.10	36.40	0.00	36.40	87.10	84.10	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 1:15 AM	179.00	1.00	74.10	24.80	0.00	40.00	74.10	75.90	24.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 1:30 AM	196.00	0.80	72.40	46.70	0.00	46.70	67.30	72.40	26.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 1:45 AM	232.00	0.50	73.70	42.80	0.00	42.80	76.90	73.70	26.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 2:00 AM	237.00	0.60	482.10	37.60	0.00	37.60	351.70	482.10	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 2:15 AM	187.00	0.70	244.10	32.50	0.00	32.50	397.90	244.10	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 2:30 AM	231.00	1.10	276.80	36.00	0.00	36.00	204.40	276.80	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 2:45 AM	225.00	1.20	175.70	50.10	0.00	50.10	46.00	175.70	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 3:00 AM	235.00	0.60	77.40	43.10	0.00	43.10	39.40	77.40	30.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 3:15 AM	247.00	1.20	38.60	44.60	6.00	44.60	39.00	38.60	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 3:30 AM	186.00	0.80	37.80	43.70	5.90	43.70	36.10	37.80	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 3:45 AM	210.00	1.10	35.30	40.80	5.50	40.80	36.40	35.30	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 4:00 AM	230.00	1.40	38.00	47.60	9.60	47.60	35.30	38.00	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 4:15 AM	232.00	1.50	52.30	44.20	0.00	44.20	41.40	52.30	28.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 4:30 AM	204.00	0.90	53.70	44.30	0.00	44.30	45.80	53.70	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 4:45 AM	172.00	0.90	48.90	25.90	0.00	48.10	48.90	57.10	25.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 5:00 AM	202.00	1.10	52.00	45.60	0.00	45.60	46.00	52.00	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 5:15 AM	164.00	1.30	48.10	25.70	0.00	44.80	48.10	59.20	25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 5:30 AM	174.00	1.00	49.10	26.10	0.00	44.30	49.10	62.90	26.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 5:45 AM	214.00	1.10	62.00	45.10	0.00	45.10	50.10	62.00	28.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 6:00 AM	215.00	1.10	54.60	44.30	0.00	44.30	48.90	54.60	28.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/14 6:15 AM	226.00	1.10	56.70	41.40	0.00	41.40	48.90	56.70	25.00	0.00	0.00	0.0				



**US Army Corps
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Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
September 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
9/29/14 2:30 PM	286.00	1.80	11.70	4.00	0.00	17.60	4.00	2.60	11.70	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 2:45 PM	265.00	3.50	2.80	19.00	16.20	19.00	19.00	4.60	2.80	11.50	0.00	0.00	0.00	0.00	0.00	
9/29/14 3:00 PM	271.00	4.60	11.80	3.70	0.00	21.60	3.70	2.60	11.80	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 3:15 PM	265.00	2.30	2.50	25.80	23.30	25.80	3.80	2.50	11.90	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 3:30 PM	287.00	2.10	12.30	3.60	0.00	21.50	3.60	2.90	12.30	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 3:45 PM	260.00	1.80	2.80	23.00	20.20	23.00	4.20	2.80	13.50	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 4:00 PM	286.00	4.10	14.20	4.50	0.00	24.90	4.50	2.90	14.20	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 4:15 PM	281.00	4.20	15.40	5.60	0.00	26.40	5.60	3.10	15.40	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 4:30 PM	276.00	3.10	16.00	5.70	0.00	27.40	5.70	3.20	16.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 4:45 PM	257.00	3.80	3.40	25.20	21.80	25.20	4.50	3.40	14.40	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 5:00 PM	262.00	4.20	3.50	25.60	22.10	25.60	4.90	3.50	14.20	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 5:15 PM	265.00	3.30	3.70	26.40	22.70	26.40	4.90	3.70	14.60	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 5:30 PM	267.00	4.10	3.70	26.30	22.60	26.30	4.60	3.70	13.60	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 5:45 PM	273.00	2.70	13.80	4.60	0.00	26.20	4.60	3.70	13.80	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 6:00 PM	264.00	2.50	3.70	25.50	21.80	25.50	4.50	3.70	14.20	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 6:15 PM	331.00	1.90	14.50	4.60	0.00	26.30	4.60	3.80	14.50	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 6:30 PM	339.00	1.90	15.40	5.20	0.00	28.30	5.20	4.40	15.40	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 6:45 PM	356.00	13.90	16.00	5.40	0.00	29.70	5.40	4.60	16.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 7:00 PM	2.00	12.60	30.50	5.30	0.00	30.50	6.50	5.30	20.70	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 7:15 PM	5.00	14.00	32.90	5.10	0.00	32.90	6.00	5.10	17.90	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 7:30 PM	7.00	11.90	30.90	5.90	0.00	30.90	8.70	5.90	18.10	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 7:45 PM	5.00	11.50	41.60	7.10	0.00	41.60	15.40	7.10	27.70	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 8:00 PM	3.00	11.30	38.20	13.70	0.00	38.20	17.90	13.70	21.30	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 8:15 PM	2.00	10.10	33.20	14.90	0.00	33.20	18.50	14.90	17.70	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 8:30 PM	11.00	10.90	26.60	15.50	0.00	26.60	21.80	15.50	15.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 8:45 PM	15.00	10.40	26.60	16.30	0.00	26.60	21.30	16.30	12.80	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 9:00 PM	14.00	9.90	22.50	17.80	0.00	22.50	18.90	17.80	11.70	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 9:15 PM	8.00	10.40	29.00	16.80	0.00	29.00	18.00	16.80	11.40	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 9:30 PM	0.00	0.00	0.00	0.00	0.00	21.30	18.20	15.70	10.70	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 9:45 PM	13.00	11.20	20.80	16.80	0.00	20.80	11.20	16.80	9.50	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 10:00 PM	0.00	0.00	0.00	0.00	0.00	23.10	11.80	14.80	10.60	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 10:15 PM	0.00	0.00	0.00	0.00	0.00	17.90	11.50	17.60	9.60	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 10:30 PM	7.00	10.20	13.00	13.10	0.10	13.00	7.20	13.10	7.40	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 10:45 PM	12.00	10.50	11.70	8.90	0.00	11.70	4.30	8.90	5.40	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 11:00 PM	10.00	10.40	5.40	10.80	5.40	5.40	2.70	10.80	3.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 11:15 PM	20.00	10.30	5.90	9.20	3.30	5.90	2.50	9.20	2.70	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 11:30 PM	13.00	10.90	13.50	7.70	0.00	13.50	2.50	7.70	2.30	0.00	0.00	0.00	0.00	0.00	0.00	
9/29/14 11:45 PM	18.00	11.40	9.40	8.00	0.00	9.40	1.50	8.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 12:00 AM	20.00	9.00	9.70	6.30	0.00	9.70	1.40	6.30	1.90	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 12:15 AM	16.00	8.90	9.10	6.10	0.00	9.10	2.70	6.10	1.90	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 12:30 AM	8.00	10.60	8.70	6.30	0.00	8.70	2.60	6.30	2.30	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 12:45 AM	10.00	8.80	4.60	8.10	3.50	4.60	1.40	8.10	2.40	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 1:00 AM	19.00	10.00	7.30	6.90	0.00	7.30	1.80	6.90	2.40	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 1:15 AM	11.00	7.60	8.30	6.60	0.00	8.30	2.20	6.60	2.20	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 1:30 AM	16.00	8.80	6.60	7.20	0.60	6.60	2.10	7.20	2.40	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 1:45 AM	10.00	7.60	4.50	6.80	2.30	4.50	2.90	6.80	2.40	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 2:00 AM	15.00	10.10	7.70	6.30	0.00	7.70	1.40	6.30	1.90	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 2:15 AM	24.00	9.00	6.50	6.70	0.20	6.50	1.20	6.70	1.80	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 2:30 AM	7.00	9.00	3.60	6.60	3.00	3.60	0.70	6.60	1.80	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 2:45 AM	5.00	8.70	5.80	6.40	0.60	5.80	1.70	6.40	2.20	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 3:00 AM	10.00	8.70	6.60	5.50	0.00	6.60	0.40	5.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 3:15 AM	8.00	10.90	7.70	6.40	0.00	7.70	0.30	6.40	1.90	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 3:30 AM	12.00	11.20	5.50	4.80	0.00	5.50	0.10	4.80	1.30	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 3:45 AM	5.00	9.00	6.00	4.40	0.00	6.00	1.10	4.40	1.30	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 4:00 AM	19.00	10.40	11.50	4.00	0.00	11.50	-0.30	4.00	1.30	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 4:15 AM	15.00	10.80	5.00	4.30	0.00	5.00	-0.10	4.30	1.40	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 4:30 AM	10.00	9.00	3.40	4.40	1.00	3.40	-0.30	4.40	1.60	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 4:45 AM	22.00	9.80	5.50	3.30	0.00	5.50	2.40	3.30	1.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 5:00 AM	17.00	9.50	9.90	3.30	0.00	9.90	-0.10	3.30	1.10	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 5:15 AM	19.00	10.00	6.00	3.60	0.00	6.00	2.10	3.60	1.20	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 5:30 AM	13.00	8.30	8.80	3.30	0.00	8.80	0.00	3.30	1.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 5:45 AM	2.00	8.10	7.60	3.70	0.00	7.60	-0.10	3.70	1.10	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 6:00 AM	3.00	7.60	10.10	3.80	0.00	10.10	0.00	3.80	1.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 6:15 AM	11.00	8.70	5.20	2.80	0.00	5.20	0.60	2.80	1.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 6:30 AM	20.00	9.80	9.50	2.90	0.00	9.50	0.30	2.90	1.10	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 6:45 AM	11.00	8.70	3.50	3.60	0.10	3.50	1.70	3.60	1.10	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 7:00 AM	20.00	9.60	7.00	2.80	0.00	7.00	1.70	2.80	1.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 7:15 AM	7.00	9.70	4.00	3.10	0.00	4.00	0.70	3.10	1.70	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 7:30 AM	17.00	8.70	2.10	3.60	1.50	2.10	2.60	3.60	2.50	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 7:45 AM	23.00	10.10	2.90	3.50	0.60	2.90	-0.10	3.50	2.40	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 8:00 AM	14.00	7.40	4.80	3.40	0.00	4.80	0.10	3.40	2.10	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 8:15 AM	10.00	9.80	11.90	4.10	0.00	11.90	0.00	4.10	1.60	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 8:30 AM	21.00	7.60	6.10	3.00	0.00	6.10	1.40	3.00	2.30	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 8:45 AM	31.00	7.90	1.90	3.30	1.40	1.90	0.30	3.30	1.90	0.00	0.00	0.00	0.00	0.00	0.00	
9/30/14 9:00 AM	7.00	7.80														



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
9/30/14 3:45 PM	21.00	7.50	10.60	2.90	0.00	10.60	0.80	2.90	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 4:00 PM	25.00	7.00	9.70	2.50	0.00	9.70	1.90	2.50	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 4:15 PM	31.00	7.00	5.70	2.90	0.00	5.70	1.60	2.90	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 4:30 PM	22.00	6.30	5.00	4.40	0.00	5.00	1.20	4.40	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 4:45 PM	40.00	7.00	3.10	3.40	0.30	3.10	1.70	3.40	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 5:00 PM	40.00	5.80	1.90	3.80	1.90	1.90	0.00	3.80	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 5:15 PM	11.00	8.40	4.70	3.90	0.00	4.70	0.60	3.90	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 5:30 PM	43.00	4.80	4.00	4.80	0.80	4.00	0.60	4.80	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 5:45 PM	29.00	7.40	3.00	5.00	2.00	3.00	0.90	5.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 6:00 PM	26.00	5.00	3.60	4.00	0.40	3.60	3.00	4.00	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 6:15 PM	25.00	6.40	7.40	3.20	0.00	7.40	-0.20	3.20	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 6:30 PM	29.00	5.50	1.70	2.30	0.60	1.70	-0.40	2.30	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 6:45 PM	52.00	5.00	3.80	2.70	0.00	3.80	1.30	2.70	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 7:00 PM	32.00	5.10	3.30	3.10	0.00	3.30	1.20	3.10	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 7:15 PM	55.00	4.00	2.00	3.00	1.00	2.00	0.80	3.00	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 7:30 PM	38.00	4.60	3.00	4.10	1.10	3.00	0.80	4.10	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 7:45 PM	56.00	4.40	2.10	3.90	1.80	2.10	0.60	3.90	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 8:00 PM	17.00	5.80	2.10	4.00	1.90	2.10	0.60	4.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 8:15 PM	25.00	5.10	4.30	5.50	1.20	4.30	2.40	5.50	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 8:30 PM	48.00	5.90	5.10	5.90	0.80	5.10	4.50	5.90	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 8:45 PM	42.00	4.80	4.20	5.20	1.00	4.20	2.70	5.20	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 9:00 PM	50.00	3.50	6.10	5.80	0.00	6.10	3.50	5.80	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 9:15 PM	73.00	3.90	6.00	5.90	0.00	6.00	6.30	5.90	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 9:30 PM	106.00	2.70	4.30	7.20	2.90	5.80	4.30	6.40	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 9:45 PM	63.00	4.20	6.00	6.60	0.60	6.00	4.40	6.60	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 10:00 PM	65.00	4.20	6.20	5.50	0.00	6.20	4.10	5.50	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 10:15 PM	124.00	3.20	4.20	11.50	7.30	6.80	4.20	7.00	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 10:30 PM	110.00	3.00	3.10	5.20	2.10	5.20	3.10	4.90	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 10:45 PM	106.00	2.50	8.30	8.60	0.30	0.00	8.30	6.90	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 11:00 PM	118.00	3.90	4.90	7.80	2.90	12.20	4.90	6.80	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 11:15 PM	110.00	3.60	3.60	3.50	0.00	4.60	3.60	5.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 11:30 PM	78.00	3.80	6.80	6.10	0.00	6.80	4.50	6.10	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/30/14 11:45 PM	148.00	2.60	5.50	8.60	3.10	10.70	5.50	6.30	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

IHC CDF Dredge Project : Air Monitoring Alarm Response Log

Air Monitoring Station: M1 M2 M3 M4 Dock

Air Monitoring Instrument:

Cerex Unit (Naphthalene) Thermo Unit (Particles) PID Monitor

Date & Time of alarm: 9/25/2014 9:00AM Email sent to site Technician? (Yes or **No**)

Technician responded to the alarm; Scott Peterson

1. Was dredging occurring at the time of the alarm? (Yes or **No**)

2. Alarm caused by:

- Loss of Power
- Loss of Radio Communication
- Out of Calibration
- UV Alignment
- Blockage in Air Tube
- Air Quality
- Other: Calibrations in progress

3. Corrective Actions taken? (Yes or **No**)

4. Dredging suspended? (Yes or **No**)

5. Alarm logged in air monitoring action spreadsheet? (**Yes** or No)

Description of Action Taken:

A. The air-monitoring calibrations were in process when the alarm occurred. During the procedure of cleaning the dust from the intake-filters on the Cerex unit caused the high particle alarm. Caution will be taken to be downwind of the Thermo when blowing out the filters.

IHC CDF Dredge Project : Air Monitoring Alarm Response Log

Air Monitoring Station: M1 M2 M3 M4 Dock

Air Monitoring Instrument:

Cerex Unit (Naphthalene) Thermo Unit (Particles) PID Monitor

Date & Time of alarm: 9/16/2014 10:30AM Email sent to site Technician? (Yes or **No**)

Technician responded to the alarm; Scott Peterson

1. Was dredging occurring at the time of the alarm? (Yes or **No**)

2. Alarm caused by:

- Loss of Power
- Loss of Radio Communication
- Out of Calibration
- UV Alignment
- Blockage in Air Tube
- Air Quality
- Other: Server web communication problems

3. Corrective Actions taken? (Yes or **No**)

4. Dredging suspended? (Yes or **No**)

5. Alarm logged in air monitoring action spreadsheet? (**Yes** or No)

Description of Action Taken:

A. The air-monitoring server lost communication with USGS wind data server. The air-monitoring server was re-set and updated with the latest Windows patches. The problem seem corrected with the software and firmware updates. Server was checked again on 9/17/2014.