



US Army Corps
of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
9-1-13 to 9-30-13

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	
9/1/13 12:00 AM	42.00	5.10	9.40	9.80	0.40	9.40	6.50	9.80	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 12:15 AM	38.00	5.50	9.30	9.40	0.10	9.30	6.30	9.40	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 12:30 AM	46.00	5.50	8.90	8.90	0.00	8.90	6.40	8.90	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 12:45 AM	37.00	5.40	8.70	8.50	0.00	8.70	6.40	8.50	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 1:00 AM	42.00	6.00	9.60	8.80	0.00	9.60	6.00	8.80	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 1:15 AM	28.00	5.20	9.50	9.10	0.00	9.50	6.50	9.10	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 1:30 AM	52.00	3.40	9.90	10.10	0.20	9.90	6.30	10.10	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 1:45 AM	46.00	4.50	9.20	8.20	0.00	9.20	5.40	8.20	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 2:00 AM	40.00	3.90	8.90	8.80	0.00	8.90	6.10	8.80	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 2:15 AM	22.00	3.20	8.70	9.10	0.40	8.70	5.60	9.10	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 2:30 AM	34.00	2.60	8.70	8.50	0.00	8.70	12.40	8.50	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 2:45 AM	46.00	2.80	8.30	10.10	1.80	8.30	8.90	10.10	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 3:00 AM	0.00	2.30	8.40	8.40	0.00	8.40	5.20	8.40	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 3:15 AM	8.00	1.40	8.80	7.90	0.00	8.80	5.70	7.90	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 3:30 AM	356.00	1.70	5.30	7.00	1.70	8.30	7.00	8.40	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 3:45 AM	358.00	1.60	7.00	6.80	0.00	8.40	6.80	8.40	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 4:00 AM	352.00	1.10	5.20	6.10	0.90	8.50	6.10	8.20	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 4:15 AM	323.00	1.20	5.90	5.80	0.00	8.20	5.80	7.80	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 4:30 AM	311.00	1.30	5.80	7.60	1.80	8.20	7.60	7.90	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 4:45 AM	311.00	1.20	5.20	8.60	3.40	8.30	8.60	8.10	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 5:00 AM	331.00	1.70	5.90	8.80	2.90	8.00	8.80	7.90	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 5:15 AM	249.00	0.40	7.70	8.20	0.50	8.20	8.90	7.70	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 5:30 AM	263.00	0.80	7.60	7.90	0.30	7.90	8.30	7.60	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 5:45 AM	210.00	0.80	7.80	8.10	0.30	8.10	9.00	7.80	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 6:00 AM	257.00	1.00	8.80	10.00	1.20	10.00	11.30	8.80	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 6:15 AM	280.00	0.70	8.30	10.20	1.90	9.50	10.20	8.10	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 6:30 AM	235.00	0.80	8.70	8.10	0.00	8.10	10.50	8.70	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 6:45 AM	268.00	1.60	9.30	8.50	0.00	8.50	12.30	9.30	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 7:00 AM	250.00	1.40	10.30	9.90	0.00	9.90	12.90	10.30	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 7:15 AM	255.00	1.40	10.20	9.60	0.00	9.60	13.50	10.20	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 7:30 AM	278.00	2.30	16.10	11.80	0.00	10.00	11.80	11.10	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 7:45 AM	267.00	2.00	12.00	11.30	0.00	11.30	16.80	12.00	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 8:00 AM	253.00	1.80	12.40	12.10	0.00	12.10	16.40	12.40	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 8:15 AM	211.00	2.00	11.60	11.10	0.00	11.10	16.30	11.60	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 8:30 AM	271.00	2.50	23.00	18.00	0.00	14.20	18.00	13.70	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 8:45 AM	273.00	2.10	24.70	19.40	0.00	16.60	19.40	14.50	24.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 9:00 AM	263.00	1.70	14.20	16.80	2.60	16.80	32.80	14.20	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 9:15 AM	260.00	2.50	12.20	14.80	2.60	14.80	25.30	12.20	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 9:30 AM	273.00	2.30	14.60	24.10	9.50	15.00	24.10	11.30	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 9:45 AM	257.00	3.60	10.10	12.70	2.60	12.70	20.70	10.10	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 10:00 AM	241.00	2.30	10.80	13.00	2.20	13.00	22.90	10.80	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 10:15 AM	244.00	1.90	12.00	14.80	2.80	14.80	21.60	12.00	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 10:30 AM	281.00	2.80	12.40	14.80	2.40	11.30	14.80	9.60	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 10:45 AM	251.00	3.50	10.30	11.30	1.00	11.30	13.50	10.30	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 11:00 AM	274.00	2.90	12.80	13.40	0.60	11.60	13.40	10.30	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 11:15 AM	278.00	3.90	12.50	11.70	0.00	11.20	11.70	9.40	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 11:30 AM	310.00	4.20	12.00	11.80	0.00	11.80	11.80	9.70	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 11:45 AM	317.00	2.60	12.00	11.20	0.00	11.50	11.20	9.70	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 12:00 PM	292.00	2.90	11.10	10.60	0.00	11.60	10.60	9.40	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 12:15 PM	292.00	4.10	19.60	10.90	0.00	13.30	10.90	9.20	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 12:30 PM	257.00	3.30	10.80	12.70	1.90	12.70	13.40	10.80	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 12:45 PM	189.00	1.80	12.10	14.70	2.60	14.70	14.70	12.10	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 1:00 PM	239.00	2.40	13.30	16.00	2.70	16.00	15.20	13.30	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 1:15 PM	299.00	1.40	20.80	18.40	0.00	17.70	18.40	15.00	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 1:30 PM	263.00	3.80	12.30	18.80	6.50	18.80	13.40	12.30	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 1:45 PM	240.00	2.40	12.60	18.80	6.00	18.60	13.80	12.60	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 2:00 PM	253.00	4.10	12.30	14.80	2.50	14.80	12.40	12.30	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 2:15 PM	235.00	1.50	11.20	13.60	2.40	13.60	10.70	11.20	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 2:30 PM	266.00	0.60	10.80	12.60	1.80	12.60	9.70	10.80	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 2:45 PM	325.00	1.50	10.60	8.30	0.00	11.40	8.30	9.60	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 3:00 PM	334.00	1.60	10.10	8.10	0.00	10.40	8.10	9.40	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 3:15 PM	256.00	4.30	9.00	9.70	0.70	9.70	7.30	9.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 3:30 PM	278.00	4.40	8.60	6.90	0.00	9.60	6.90	8.60	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 3:45 PM	247.00	2.80	8.60	9.40	0.80	9.40	7.10	8.60	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 4:00 PM	258.00	2.80	8.40	9.20	0.80	9.20	7.10	8.40	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 4:15 PM	269.00	2.20	8.10	9.00	0.90	9.00	6.80	8.10	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/1/13 4:30 PM	301.00	2.60	9.40	6.60	0.00	9.00	6.60	8.40	9								



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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		
9/2/13 12:45 AM	6.00	4.00	12.60	11.30	0.00	12.60	11.20	11.30	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 1:00 AM	1.00	4.10	11.00	9.40	0.00	11.00	9.30	9.40	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 1:15 AM	11.00	5.20	10.30	9.10	0.00	10.30	8.50	9.10	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 1:30 AM	7.00	5.70	10.00	9.20	0.00	10.00	8.50	9.20	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 1:45 AM	0.00	7.70	10.30	8.60	0.00	10.30	8.30	8.60	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 2:00 AM	2.00	6.50	10.10	8.60	0.00	10.10	8.00	8.60	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 2:15 AM	3.00	4.00	9.90	8.10	0.00	9.90	7.50	8.10	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 2:30 AM	4.00	5.20	9.90	8.20	0.00	9.90	7.40	8.20	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 2:45 AM	347.00	6.10	11.80	7.40	0.00	9.50	7.40	8.50	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 3:00 AM	4.00	7.00	9.50	8.40	0.00	9.50	7.70	8.40	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 3:15 AM	359.00	6.40	9.90	7.00	0.00	9.20	7.00	8.10	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 3:30 AM	3.00	4.60	9.20	8.40	0.00	9.20	7.00	8.40	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 3:45 AM	16.00	5.90	9.90	8.50	0.00	9.90	6.60	8.50	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 4:00 AM	13.00	5.20	9.90	8.50	0.00	9.90	6.70	8.50	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 4:15 AM	9.00	5.90	9.60	8.50	0.00	9.60	6.90	8.50	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 4:30 AM	6.00	7.10	9.60	8.50	0.00	9.60	7.10	8.50	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 4:45 AM	10.00	6.20	9.50	8.20	0.00	9.50	6.70	8.20	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 5:00 AM	13.00	6.60	9.30	8.30	0.00	9.30	6.80	8.30	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 5:15 AM	10.00	6.00	9.00	7.90	0.00	9.00	5.60	7.90	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 5:30 AM	14.00	6.60	8.50	7.30	0.00	8.50	6.40	7.30	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 5:45 AM	21.00	5.50	8.40	7.30	0.00	8.40	6.60	7.30	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 6:00 AM	13.00	4.80	8.00	7.20	0.00	8.00	6.00	7.20	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 6:15 AM	36.00	6.50	8.40	7.10	0.00	8.40	5.80	7.10	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 6:30 AM	36.00	5.90	8.20	6.90	0.00	8.20	5.20	6.90	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 6:45 AM	42.00	8.10	8.70	6.70	0.00	8.70	6.90	6.70	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 7:00 AM	35.00	9.30	8.80	6.60	0.00	8.80	9.40	6.60	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 7:15 AM	42.00	6.80	8.90	6.50	0.00	8.90	8.50	6.50	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 7:30 AM	33.00	7.30	7.70	6.50	0.00	7.70	7.70	6.50	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 7:45 AM	31.00	8.10	7.50	6.10	0.00	7.50	7.00	6.10	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 8:00 AM	47.00	7.80	6.30	6.70	0.40	6.30	5.30	6.70	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 8:15 AM	32.00	5.80	5.80	5.40	0.00	5.80	4.60	5.40	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 8:30 AM	49.00	6.50	5.40	6.60	1.20	5.40	4.60	6.60	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 8:45 AM	51.00	6.60	5.10	5.40	0.30	5.10	4.20	5.40	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 9:00 AM	58.00	7.00	0.00	4.70	0.00	0.00	2.70	4.70	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 9:15 AM	39.00	5.10	4.60	5.00	0.40	4.60	3.00	5.00	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 9:30 AM	41.00	3.30	4.30	4.40	0.10	4.30	2.30	4.40	-0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 9:45 AM	35.00	6.10	3.80	4.40	0.60	3.80	2.60	4.40	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 10:00 AM	53.00	5.70	3.70	4.30	0.60	3.70	3.70	4.30	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 10:15 AM	37.00	6.30	3.80	4.00	0.20	3.80	3.70	4.00	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 10:30 AM	43.00	5.90	4.00	4.30	0.30	4.00	5.30	4.30	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 10:45 AM	14.00	5.50	4.20	4.20	0.00	4.20	4.50	4.20	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 11:00 AM	41.00	5.10	4.00	4.10	0.10	4.00	4.60	4.10	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 11:15 AM	27.00	3.90	3.50	3.70	0.20	3.50	2.40	3.70	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 11:30 AM	50.00	4.00	3.80	3.80	0.00	3.80	3.20	3.80	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 11:45 AM	52.00	4.80	4.00	3.80	0.00	4.00	4.30	3.80	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 12:00 PM	45.00	6.70	4.00	3.80	0.00	4.00	2.90	3.80	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 12:15 PM	51.00	4.80	3.70	3.70	0.00	3.70	3.00	3.70	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 12:30 PM	41.00	5.70	3.90	3.40	0.00	3.90	2.40	3.40	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 12:45 PM	47.00	5.70	3.60	3.60	0.00	3.60	3.50	3.60	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 1:00 PM	78.00	4.80	3.50	4.00	0.50	3.50	4.30	4.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 1:15 PM	83.00	4.70	3.30	3.50	0.20	3.30	7.40	3.50	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 1:30 PM	40.00	6.20	4.10	3.70	0.00	4.10	6.20	3.70	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 1:45 PM	22.00	5.70	3.70	4.00	0.30	3.70	5.40	4.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 2:00 PM	74.00	3.40	4.90	4.00	0.00	4.90	7.10	4.00	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 2:15 PM	90.00	4.50	8.00	2.60	0.00	3.70	8.00	4.40	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 2:30 PM	35.00	7.20	3.60	3.70	0.10	3.60	3.80	3.70	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 2:45 PM	39.00	4.70	4.00	4.80	0.80	4.00	4.50	4.80	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 3:00 PM	10.00	4.10	4.10	4.30	0.20	4.10	5.00	4.30	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 3:15 PM	62.00	6.50	3.60	4.20	0.60	3.60	4.90	4.20	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 3:30 PM	36.00	7.40	0.00	3.90	0.00	0.00	4.30	3.90	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 3:45 PM	18.00	7.70	4.20	3.90	0.00	4.20	3.50	3.90	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 4:00 PM	35.00	7.90	3.90	3.60	0.00	3.90	3.30	3.60	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 4:15 PM	34.00	8.30	4.00	3.50	0.00	4.00	3.50	3.50	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 4:30 PM	59.00	8.50	4.20	4.10	0.00	4.20	4.80	4.10	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 4:45 PM	27.00	9.20	4.10	3.70	0.00	4.10	3.00	3.70	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 5:00 PM	21.00	7.40	4.20	3.80	0.00	4.20	3.10	3.80	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 5:15 PM	48.00	8.30	4.20	3.60	0.00	4.20	3.60	3.60	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 5:30 PM	30.00	6.60	4.30	3.70	0.00	4.30	7.70	3.70	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 5:45 PM	26.00	5.70	4.70	3.80	0.00	4.70	4.20	3.80	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 6:00 PM	26.00	7.60	4.00	4.00	0.00	4.00	4.30	4.00	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 6:15 PM	48.00	7.40	4.20	3.80	0.00	4.20	4.10	3.80	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9/2/13 6:30 PM	38.00	6.60	4.20	3.70	0.00	4.20	4.30	3.7										



Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (ug/m ³)								Naphthalene (ug/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	
9/3/13 1:30 AM	40.00	5.00	4.90	4.90	0.00	4.90	2.90	4.90	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 1:45 AM	17.00	4.40	4.10	3.90	0.00	4.10	2.30	3.90	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 2:00 AM	43.00	6.20	4.00	3.60	0.00	4.00	2.70	3.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 2:15 AM	50.00	4.10	4.90	3.90	0.00	4.90	10.00	3.90	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 2:30 AM	36.00	4.30	0.00	3.70	0.00	0.00	5.60	3.70	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 2:45 AM	15.00	7.00	8.10	4.20	0.00	8.10	5.70	4.20	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 3:00 AM	3.00	4.10	5.50	4.50	0.00	5.50	5.30	4.50	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 3:15 AM	304.00	1.90	0.20	4.60	4.40	6.30	4.60	5.20	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 3:30 AM	3.00	0.90	6.20	5.20	0.00	6.20	3.90	5.20	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 3:45 AM	280.00	1.20	2.40	5.30	2.90	6.90	5.30	5.50	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 4:00 AM	331.00	0.90	2.80	7.80	5.00	7.80	7.80	6.30	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 4:15 AM	307.00	2.70	5.70	6.80	1.10	6.30	6.80	6.80	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 4:30 AM	320.00	3.00	6.00	7.70	1.70	7.20	7.70	7.90	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 4:45 AM	292.00	3.00	4.70	7.20	2.50	6.70	7.20	7.70	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 5:00 AM	336.00	3.20	4.20	6.10	1.90	6.30	6.10	7.20	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 5:15 AM	332.00	3.80	3.70	5.20	1.50	6.00	5.20	5.80	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 5:30 AM	320.00	4.00	3.10	4.40	1.30	7.30	4.40	5.10	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 5:45 AM	319.00	3.00	4.40	4.70	0.30	4.90	4.70	4.50	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 6:00 AM	314.00	2.80	3.90	4.70	0.80	5.30	4.70	4.00	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 6:15 AM	315.00	3.00	4.30	5.00	0.70	4.80	5.00	3.90	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 6:30 AM	318.00	3.00	4.80	4.90	0.10	4.90	4.90	4.20	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 6:45 AM	307.00	3.40	5.10	4.80	0.00	5.80	4.80	4.80	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 7:00 AM	310.00	3.00	8.80	5.20	0.00	7.00	5.20	6.00	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 7:15 AM	303.00	3.20	12.10	5.50	0.00	8.20	5.50	6.90	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 7:30 AM	314.00	2.10	15.40	5.80	0.00	9.80	5.80	7.40	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 7:45 AM	318.00	2.90	13.00	5.70	0.00	9.60	5.70	8.30	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 8:00 AM	324.00	3.10	30.30	6.20	0.00	9.60	6.20	11.60	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 8:15 AM	327.00	3.00	16.40	10.80	0.00	9.40	10.80	10.70	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 8:45 AM	326.00	3.40	14.60	6.50	0.00	8.60	6.50	9.60	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 9:00 AM	358.00	1.60	14.30	5.60	0.00	9.70	5.60	8.60	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 9:15 AM	309.00	3.40	15.60	7.40	0.00	9.90	7.40	9.50	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 9:30 AM	323.00	3.50	32.60	8.50	0.00	10.60	8.50	9.40	32.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 9:45 AM	289.00	3.10	13.50	7.00	0.00	9.80	7.00	9.10	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 10:00 AM	357.00	3.20	18.10	7.40	0.00	10.50	7.40	10.60	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 10:15 AM	321.00	2.90	34.40	7.70	0.00	13.60	7.70	10.50	34.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 10:30 AM	320.00	3.40	15.80	8.50	0.00	13.00	8.50	11.70	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 10:45 AM	318.00	3.40	19.10	8.70	0.00	12.60	8.70	11.20	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 11:00 AM	343.00	2.80	12.20	8.60	0.00	12.00	8.60	14.00	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 11:15 AM	350.00	3.90	15.50	8.10	0.00	10.70	8.10	11.20	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 11:30 AM	0.00	4.80	9.50	11.40	1.90	9.50	9.00	11.40	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 11:45 AM	15.00	2.60	8.30	10.90	2.60	8.30	9.80	10.90	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 12:00 PM	3.00	3.70	8.80	7.70	0.00	8.80	7.00	7.70	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 12:15 PM	15.00	3.00	9.40	7.30	0.00	9.40	9.90	7.30	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 12:30 PM	10.00	3.30	5.60	6.10	0.50	5.60	6.80	6.10	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 12:45 PM	11.00	3.50	5.90	6.30	0.40	5.90	6.00	6.30	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 1:00 PM	30.00	2.00	6.90	5.10	0.00	6.90	8.20	5.10	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 1:15 PM	40.00	3.90	8.10	5.00	0.00	8.10	6.60	5.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 1:30 PM	11.00	3.60	6.90	4.60	0.00	6.90	6.00	4.60	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 1:45 PM	73.00	2.90	6.60	5.00	0.00	6.60	4.80	5.00	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 2:00 PM	27.00	3.80	5.80	4.90	0.00	5.80	6.80	4.90	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 2:15 PM	35.00	4.70	6.10	6.70	0.60	6.10	6.40	6.70	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 2:30 PM	28.00	5.50	6.40	7.90	1.50	6.40	6.90	7.90	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 2:45 PM	45.00	6.40	6.30	8.00	1.70	6.30	7.30	8.00	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 3:00 PM	60.00	4.90	6.30	10.20	3.90	6.30	7.00	10.20	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 3:15 PM	22.00	4.30	6.00	9.00	3.00	6.00	7.90	9.00	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 3:30 PM	81.00	3.40	7.50	8.20	0.70	7.50	7.40	8.20	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 4:00 PM	139.00	3.90	10.60	7.40	0.00	9.40	10.60	6.70	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 4:15 PM	153.00	3.20	22.00	17.90	0.00	9.40	22.00	7.00	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 4:30 PM	140.00	3.30	24.60	12.70	0.00	10.80	24.60	8.00	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 4:45 PM	116.00	2.90	26.50	14.80	0.00	14.50	26.50	13.30	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 5:00 PM	132.00	3.00	9.50	29.70	20.20	19.00	9.50	9.20	29.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 5:15 PM	99.00	2.00	15.20	19.50	4.30	13.60	15.20	7.50	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 5:30 PM	94.00	2.20	8.90	13.20	4.30	9.50	8.90	8.00	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 5:45 PM	117.00	2.60	16.50	9.20	0.00	9.30	16.50	15.00	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 6:00 PM	134.00	3.70	19.60	8.40	0.00	10.20	19.60	11.60	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 6:15 PM	140.00	2.20	17.30	8.70	0.00	8.80	17.30	10.70	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 6:30 PM	145.00	2.90	22.60	5.70	0.00	8.00	22.60	9.60	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/3/13 6:45 PM	118.00	2.70															



US Army Corps of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
9-1-13 to 9-30-13

Table with columns: Reading Time (EST), Wind Direction, Wind Speed, Particulates (µg/m³) [Upwind, Downwind, CDF Contribution, M1, M2, M3, M4], and Naphthalene (µg/m³) [Upwind, Downwind, CDF Contribution, M1, M2, M3, M4]. Rows represent hourly measurements from 9/5/13 3:30 AM to 9/6/13 4:00 AM.



US Army Corps
of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
9-1-13 to 9-30-13

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
9/6/13 4:15 AM	170.00	2.60	16.00	12.50	0.00	14.90	16.00	11.20	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 4:30 AM	164.00	2.20	18.40	14.10	0.00	24.20	18.40	12.10	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 4:45 AM	169.00	2.90	18.70	11.90	0.00	15.40	18.70	13.30	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 5:00 AM	177.00	3.30	22.80	13.20	0.00	16.60	22.80	14.30	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 5:15 AM	175.00	2.20	18.70	12.20	0.00	17.60	18.70	14.60	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 5:30 AM	175.00	3.00	19.20	12.80	0.00	18.20	19.20	15.40	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 5:45 AM	192.00	2.40	15.60	19.60	4.00	19.60	26.40	15.60	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 6:00 AM	192.00	2.40	15.90	19.80	3.90	19.80	19.50	15.90	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 6:15 AM	186.00	2.90	14.00	18.30	4.30	18.30	16.20	14.00	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 6:30 AM	167.00	2.50	14.00	17.20	3.20	17.00	14.00	14.60	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 6:45 AM	174.00	2.70	14.70	17.90	3.20	15.70	14.70	15.10	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 7:00 AM	179.00	3.40	13.00	16.90	3.90	16.60	13.00	15.40	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 7:15 AM	188.00	2.60	15.90	16.60	0.70	16.60	16.10	15.90	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 7:30 AM	179.00	4.00	40.30	18.30	0.00	18.10	40.30	16.40	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 7:45 AM	177.00	4.20	21.10	19.50	0.00	17.10	21.10	18.20	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 8:00 AM	180.00	3.00	18.70	17.60	0.00	17.60	21.40	18.70	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 8:15 AM	197.00	3.50	21.60	18.40	0.00	18.40	18.60	21.60	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 8:30 AM	162.00	4.90	17.40	16.10	0.00	19.10	17.40	19.10	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 8:45 AM	199.00	3.00	18.10	18.00	0.00	18.00	20.70	18.10	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 9:00 AM	168.00	3.80	24.00	15.80	0.00	45.30	24.00	19.40	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 9:15 AM	195.00	3.80	20.00	16.10	0.00	16.10	13.60	20.00	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 9:30 AM	185.00	3.00	18.10	17.40	0.00	17.40	15.00	18.10	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 9:45 AM	176.00	4.00	23.90	16.40	0.00	17.00	23.90	16.20	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 10:00 AM	180.00	4.90	17.60	19.80	2.20	19.80	15.10	17.60	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 10:15 AM	169.00	2.90	34.20	18.40	0.00	21.70	34.20	17.20	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 10:30 AM	194.00	3.90	15.70	25.00	9.30	25.00	15.70	15.70	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 10:45 AM	197.00	2.40	14.20	22.50	8.30	22.50	17.40	14.20	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 11:00 AM	205.00	2.80	14.70	19.10	4.40	19.10	16.20	14.70	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 11:15 AM	198.00	4.50	16.60	24.20	7.60	24.20	19.70	16.60	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 11:30 AM	193.00	2.20	14.30	20.10	5.80	20.10	15.60	14.30	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 11:45 AM	202.00	3.50	14.40	21.50	7.10	21.50	17.30	14.40	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 12:00 PM	172.00	4.00	13.40	11.70	0.00	17.00	13.40	11.70	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 12:15 PM	151.00	2.70	19.70	12.70	0.00	22.20	19.70	12.80	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 12:30 PM	206.00	1.60	12.30	17.20	4.90	17.20	14.20	12.30	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 12:45 PM	200.00	2.20	13.60	17.90	4.30	17.90	12.60	13.60	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 1:00 PM	202.00	3.00	13.50	17.80	4.30	17.80	14.70	13.50	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 1:15 PM	177.00	1.70	13.30	14.80	1.50	18.50	13.30	14.30	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 1:30 PM	246.00	3.20	14.70	19.50	4.80	19.50	13.90	14.70	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 1:45 PM	151.00	3.00	15.20	15.00	0.00	21.20	15.20	14.80	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 2:00 PM	185.00	3.60	13.40	20.70	7.30	20.70	17.20	13.40	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 2:15 PM	201.00	2.70	12.80	20.20	7.40	20.20	17.50	12.80	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 2:30 PM	218.00	3.20	12.90	19.70	6.80	19.70	16.40	12.90	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 2:45 PM	216.00	2.40	12.80	20.20	7.40	20.20	18.80	12.80	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 3:00 PM	246.00	3.50	12.90	21.70	8.80	21.70	18.50	12.90	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 3:15 PM	211.00	3.40	11.90	19.60	7.70	19.60	18.50	11.90	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 3:30 PM	235.00	2.80	11.90	21.20	9.30	21.20	19.40	11.90	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 3:45 PM	228.00	0.70	11.80	19.50	7.70	19.50	22.20	11.80	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 4:00 PM	220.00	2.60	12.00	19.40	7.40	19.40	22.30	12.00	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 4:15 PM	198.00	3.90	12.30	20.40	8.10	20.40	22.30	12.30	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 4:30 PM	278.00	3.50	17.40	22.90	5.50	20.90	22.90	12.90	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 4:45 PM	204.00	2.60	15.00	22.30	7.30	22.30	22.80	15.00	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 5:00 PM	259.00	2.30	15.20	23.10	7.90	23.10	24.70	15.20	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 5:15 PM	227.00	3.50	15.80	24.30	8.50	24.30	26.60	15.80	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 5:30 PM	223.00	2.90	16.20	24.60	8.40	24.60	25.80	16.20	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 5:45 PM	0.00	0.00	0.00	0.00	0.00	25.30	28.00	16.00	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 6:00 PM	188.00	2.00	16.40	26.00	9.60	26.00	26.40	16.40	25.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 6:15 PM	0.00	0.00	0.00	0.00	0.00	26.50	28.40	17.60	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 6:30 PM	225.00	2.50	18.10	28.10	10.00	28.10	27.20	18.10	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 6:45 PM	205.00	1.70	18.40	27.70	9.30	27.70	26.10	18.40	25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 7:00 PM	205.00	2.10	18.50	27.10	8.60	27.10	29.30	18.50	27.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 7:15 PM	183.00	1.40	18.80	26.40	7.60	26.40	26.80	18.80	28.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 7:30 PM	179.00	1.60	27.00	27.90	0.90	28.20	27.00	18.90	27.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 7:45 PM	160.00	2.10	27.40	28.40	1.00	26.20	27.40	19.30	28.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 8:00 PM	154.00	2.30	26.70	27.70	1.00	25.80	26.70	20.10	27.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 8:15 PM	136.00	2.10	28.50	29.80	1.30	30.60	28.50	20.00	29.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 8:30 PM	172.00	1.70	34.50	33.40	0.00	36.20	34.50	21.80	33.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 8:45 PM	165.00	3.40	43.00	41.00	0.00	37.20	43.00	26.10	41.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 9:00 PM	164.00	3.40	42.10	49.70	7.60	43.30	42.10	27.60	49.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 9:15 PM	167.00	2.20	55.10	44.20	0.00	42.60	55.10	25.30	44.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/13 9:30 PM	163.00	3.50	50.10	31.30	0.00	34.40	50.10									



**US Army Corps
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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
9/7/13 5:00 AM	203.00	2.70	24.40	29.30	4.90	29.30	28.40	24.40	25.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 5:15 AM	219.00	2.90	25.00	30.00	5.00	30.00	28.30	25.00	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 5:30 AM	214.00	2.90	25.10	30.50	5.40	30.50	29.00	25.10	27.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 5:45 AM	228.00	2.20	24.80	29.10	4.30	29.10	29.10	24.80	25.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 6:00 AM	207.00	2.50	25.10	30.00	4.90	30.00	28.30	25.10	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 6:15 AM	218.00	2.30	25.30	29.50	4.20	29.50	28.40	25.30	28.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 6:30 AM	205.00	1.80	25.20	30.10	4.90	30.10	29.20	25.20	29.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 6:45 AM	213.00	2.60	26.00	30.50	4.50	30.50	30.10	26.00	27.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 7:00 AM	215.00	2.20	25.70	30.40	4.70	30.40	29.60	25.70	28.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 7:15 AM	208.00	3.00	26.00	30.90	4.90	30.90	29.70	26.00	28.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 7:30 AM	231.00	2.60	26.30	31.00	4.70	31.00	29.80	26.30	28.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 7:45 AM	224.00	3.40	25.80	30.30	4.50	30.30	30.80	25.80	30.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 8:00 AM	205.00	3.90	25.90	31.30	5.40	31.30	32.10	25.90	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 8:15 AM	216.00	2.80	27.70	31.90	4.20	31.90	32.90	27.70	29.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 8:30 AM	239.00	4.30	26.80	31.50	4.70	31.50	31.50	26.80	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 8:45 AM	234.00	3.90	26.00	31.20	5.20	31.20	29.80	26.00	28.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 9:00 AM	241.00	4.30	27.30	30.30	3.00	30.30	28.10	27.30	28.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 9:15 AM	264.00	4.10	25.30	29.70	4.40	29.70	27.80	25.30	26.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 9:30 AM	227.00	4.50	24.80	29.20	4.40	29.20	27.60	24.80	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 9:45 AM	230.00	3.40	24.70	28.50	3.80	28.50	27.50	24.70	26.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 10:00 AM	222.00	3.60	24.50	28.20	3.70	28.20	27.10	24.50	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 10:15 AM	245.00	3.60	23.80	27.40	3.60	27.40	26.70	23.80	26.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 10:30 AM	276.00	1.80	27.00	27.10	0.10	27.80	27.10	23.60	27.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 10:45 AM	241.00	3.10	23.80	27.30	3.50	27.30	26.40	23.80	27.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 11:00 AM	255.00	3.90	23.50	26.40	2.90	26.40	25.60	23.50	30.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 11:15 AM	246.00	3.60	22.70	26.60	3.90	26.60	25.40	22.70	32.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 11:30 AM	250.00	5.10	23.60	29.50	5.90	29.50	26.50	23.60	33.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 11:45 AM	241.00	6.50	25.00	27.20	2.20	27.20	28.40	25.00	35.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 12:00 PM	250.00	3.60	25.00	27.70	2.70	27.70	26.90	25.00	32.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 12:15 PM	199.00	4.40	24.50	25.80	1.30	25.80	26.20	24.50	30.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 12:30 PM	250.00	6.10	24.10	26.90	2.80	26.90	27.30	24.10	30.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 12:45 PM	233.00	6.40	22.40	25.70	3.30	25.70	25.00	22.40	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 1:00 PM	251.00	3.80	22.20	24.40	2.20	24.40	29.50	22.20	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 1:15 PM	241.00	7.80	24.80	25.40	0.60	25.40	30.60	24.80	28.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 1:30 PM	242.00	6.40	23.60	24.20	0.60	24.20	26.20	23.60	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 1:45 PM	263.00	5.40	25.50	25.80	0.30	25.80	29.80	25.50	29.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 2:00 PM	242.00	5.60	24.00	23.40	0.00	23.40	27.00	24.00	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 2:15 PM	240.00	5.60	22.70	21.60	0.00	21.60	26.50	22.70	27.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 2:30 PM	243.00	4.10	23.10	22.80	0.00	22.80	24.90	23.10	29.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 2:45 PM	248.00	3.80	24.10	21.90	0.00	21.90	26.30	24.10	32.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 3:00 PM	273.00	3.00	31.90	25.70	0.00	21.80	25.70	24.20	31.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 3:15 PM	258.00	4.10	25.20	21.80	0.00	21.80	25.80	25.20	30.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 3:30 PM	278.00	3.40	28.70	25.60	0.00	23.40	25.60	25.60	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 3:45 PM	284.00	2.40	28.40	29.20	0.80	23.30	29.20	26.50	28.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 4:00 PM	283.00	2.70	27.40	30.50	3.10	23.70	30.50	26.10	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 4:15 PM	303.00	2.20	29.00	28.80	0.00	21.90	28.80	24.40	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 4:30 PM	296.00	0.60	23.10	30.60	7.50	23.90	30.60	24.80	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 4:45 PM	236.00	1.50	22.10	23.30	1.20	23.30	29.00	22.10	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 5:00 PM	348.00	0.50	20.40	25.60	5.20	21.00	25.60	20.00	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 5:15 PM	55.00	2.60	21.20	19.30	0.00	21.20	25.30	19.30	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 5:30 PM	79.00	4.90	22.40	19.70	0.00	22.40	27.10	19.70	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 5:45 PM	117.00	5.70	29.10	25.60	0.00	22.20	29.10	19.30	25.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 6:00 PM	130.00	3.30	27.40	25.40	0.00	21.70	27.40	19.10	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 6:15 PM	120.00	3.20	87.30	49.00	0.00	45.50	87.30	31.30	49.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 6:30 PM	161.00	1.60	35.50	139.40	103.90	47.70	35.50	48.40	139.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 6:45 PM	192.00	1.80	24.80	25.70	0.90	25.70	34.90	24.80	28.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 7:00 PM	221.00	1.70	31.50	28.80	0.00	28.80	68.70	31.50	30.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 7:15 PM	265.00	2.00	29.20	33.10	3.90	33.10	36.20	29.20	36.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 7:30 PM	262.00	1.50	34.50	35.50	1.00	35.50	39.80	34.50	38.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 7:45 PM	240.00	1.60	36.10	43.10	7.00	43.10	55.30	36.10	54.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 8:00 PM	248.00	1.80	33.80	42.60	8.80	42.60	49.50	33.80	43.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 8:15 PM	238.00	2.30	22.10	29.90	7.80	29.90	35.50	22.10	31.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 8:30 PM	241.00	1.90	22.00	26.50	4.50	26.50	24.00	22.00	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 8:45 PM	232.00	0.90	23.30	24.00	0.70	24.00	24.10	23.30	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 9:00 PM	194.00	0.60	23.40	23.40	0.00	23.40	24.90	23.40	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 9:15 PM	233.00	1.10	23.60	26.10	2.50	26.10	25.90	23.60	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 9:30 PM	249.00	1.20	23.00	26.60	3.60	26.60	25.70	23.00	26.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 9:45 PM	237.00	0.80	22.70	25.00	2.30	25.00	26.30	22.70	27.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/13 10:00 PM	221.00	1.20	23.20	25.20	2.00	25.20	27.50	23.20	29.20	0.00	0.00					



**US Army Corps
of Engineers**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
9-1-13 to 9-30-13

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates ($\mu\text{g}/\text{m}^3$)							Naphthalene ($\mu\text{g}/\text{m}^3$)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	
9/8/13 5:45 AM	36.00	5.90	22.20	21.30	0.00	22.20	19.00	21.30	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 6:00 AM	40.00	5.50	25.50	22.20	0.00	25.50	23.60	22.20	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 6:15 AM	32.00	6.30	36.00	26.30	0.00	36.00	33.80	26.30	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 6:30 AM	35.00	6.10	35.50	31.70	0.00	35.50	38.50	31.70	39.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 6:45 AM	47.00	5.80	37.40	31.90	0.00	37.40	39.20	31.90	41.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 7:00 AM	57.00	5.20	32.00	31.40	0.00	32.00	35.20	31.40	38.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 7:15 AM	43.00	5.50	28.40	26.40	0.00	28.40	29.30	26.40	30.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 7:30 AM	41.00	6.60	26.40	24.40	0.00	26.40	25.90	24.40	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 7:45 AM	56.00	4.60	25.30	24.10	0.00	25.30	32.40	24.10	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 8:00 AM	49.00	5.10	24.10	22.30	0.00	24.10	26.60	22.30	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 8:15 AM	82.00	4.20	23.70	21.30	0.00	23.70	30.10	21.30	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 8:30 AM	54.00	6.90	26.00	21.00	0.00	26.00	32.80	21.00	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 8:45 AM	83.00	4.50	26.60	24.30	0.00	26.60	32.20	24.30	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 9:00 AM	70.00	3.90	26.80	22.60	0.00	26.80	31.10	22.60	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 9:15 AM	87.00	4.40	43.80	30.10	0.00	43.80	40.20	30.10	35.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 9:30 AM	91.00	3.60	37.00	44.40	7.40	32.00	37.00	29.90	44.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 9:45 AM	102.00	3.30	31.30	39.50	8.20	31.10	31.30	26.80	39.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 10:00 AM	99.00	2.10	34.00	34.50	0.50	30.60	34.00	26.90	34.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 10:15 AM	98.00	3.00	31.30	35.10	3.80	31.80	31.30	26.60	35.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 10:30 AM	83.00	2.30	35.90	27.20	0.00	35.90	32.20	27.20	39.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 10:45 AM	69.00	2.10	39.40	28.30	0.00	39.40	34.50	28.30	41.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 11:00 AM	68.00	2.90	38.70	27.50	0.00	38.70	34.20	27.50	45.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 11:15 AM	67.00	2.20	40.00	27.70	0.00	40.00	30.30	27.70	45.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 11:30 AM	59.00	3.70	36.60	26.60	0.00	36.60	43.70	26.60	38.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 11:45 AM	47.00	4.20	27.50	24.00	0.00	27.50	25.90	24.00	40.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 12:00 PM	57.00	5.50	30.50	24.50	0.00	30.50	24.50	24.50	35.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 12:15 PM	48.00	7.10	31.30	26.40	0.00	31.30	28.00	26.40	36.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 12:30 PM	27.00	6.20	32.70	28.30	0.00	32.70	33.60	28.30	42.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 12:45 PM	57.00	4.90	37.60	37.30	0.00	37.60	37.00	37.30	45.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 1:00 PM	65.00	6.90	44.80	36.50	0.00	44.80	37.70	36.50	52.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 1:15 PM	69.00	5.50	40.30	38.50	0.00	40.30	41.00	38.50	46.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 1:30 PM	67.00	6.90	37.50	37.90	0.40	37.50	40.20	37.90	44.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 1:45 PM	72.00	6.20	39.30	33.60	0.00	39.30	38.10	33.60	47.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 2:00 PM	49.00	7.20	35.30	37.40	2.10	35.30	41.80	37.40	44.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 2:15 PM	83.00	4.40	34.00	34.00	0.00	34.00	34.40	34.00	41.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 2:30 PM	76.00	6.50	33.50	29.70	0.00	33.50	30.50	29.70	38.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 2:45 PM	74.00	5.70	32.40	30.80	0.00	32.40	30.30	30.80	33.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 3:00 PM	72.00	6.20	30.70	27.70	0.00	30.70	28.00	27.70	32.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 3:15 PM	73.00	6.90	29.60	27.60	0.00	29.60	27.30	27.60	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 3:30 PM	65.00	5.40	29.10	26.60	0.00	29.10	25.80	26.60	30.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 3:45 PM	44.00	6.30	30.20	26.00	0.00	30.20	26.00	26.00	30.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 4:00 PM	56.00	5.90	29.40	25.40	0.00	29.40	27.00	25.40	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 4:15 PM	56.00	7.50	29.40	28.90	0.00	29.40	38.70	28.90	32.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 4:30 PM	47.00	6.00	29.10	28.50	0.00	29.10	28.80	28.50	30.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 4:45 PM	74.00	6.20	31.70	28.50	0.00	31.70	30.20	28.50	31.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 5:00 PM	65.00	4.90	33.40	29.70	0.00	33.40	32.90	29.70	43.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 5:15 PM	65.00	9.20	45.40	30.90	0.00	45.40	46.40	30.90	39.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 5:30 PM	86.00	7.10	30.90	27.10	0.00	30.90	33.70	27.10	34.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 5:45 PM	95.00	6.60	37.40	37.00	0.00	32.20	37.40	31.90	37.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 6:00 PM	92.00	7.90	35.80	37.60	1.80	84.40	35.80	43.30	37.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 6:15 PM	95.00	6.30	64.60	42.30	0.00	32.10	64.60	28.20	42.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 6:30 PM	78.00	5.90	28.10	35.00	6.90	28.10	28.10	35.00	29.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 6:45 PM	87.00	5.00	29.70	24.70	0.00	29.70	28.80	24.70	31.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 7:00 PM	88.00	2.90	32.90	23.30	0.00	32.90	25.00	23.30	27.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 7:15 PM	142.00	3.50	25.20	31.70	6.50	31.90	25.20	23.10	31.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 7:30 PM	126.00	2.60	24.40	31.10	6.70	31.70	24.40	22.90	31.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 7:45 PM	137.00	3.40	30.20	27.70	0.00	28.50	30.20	24.30	27.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 8:00 PM	140.00	4.90	29.20	24.80	0.00	25.80	29.20	24.60	24.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 8:15 PM	135.00	5.50	26.90	28.30	1.40	29.10	26.90	24.50	28.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 8:30 PM	119.00	4.60	27.00	30.60	3.60	29.30	27.00	23.00	30.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 8:45 PM	146.00	3.90	27.50	29.80	2.30	29.50	27.50	24.00	29.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 9:00 PM	115.00	4.40	28.60	26.70	0.00	28.80	28.60	24.00	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 9:15 PM	133.00	4.10	30.90	26.50	0.00	28.60	30.90	24.50	26.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 9:30 PM	145.00	3.60	28.30	30.30	2.00	30.80	28.30	23.90	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 9:45 PM	144.00	2.50	28.50	28.40	0.00	28.90	28.50	23.80	28.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/13 10:00 PM	156.00	2.40	32.50	30.00	0.00	29.50	32.50	24.90	3								



**US Army Corps
of Engineers**

**Indiana Harbor and Canal
Confined Disposal Facility**
Real-Time Air Monitoring Data
9-1-13 to 9-30-13

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
9/9/13 6:30 AM	180.00	2.00	19.20	21.50	2.30	21.50	21.30	19.20	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 6:45 AM	183.00	3.50	19.80	23.10	3.30	23.10	21.80	19.80	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 7:00 AM	174.00	5.70	22.80	20.30	0.00	23.30	22.80	20.10	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 7:15 AM	171.00	4.00	22.60	21.00	0.00	25.30	22.60	20.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 7:30 AM	189.00	4.00	20.40	24.10	3.70	24.10	22.80	20.40	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 7:45 AM	203.00	3.90	21.30	26.30	5.00	26.30	26.00	21.30	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 8:00 AM	197.00	4.00	21.10	27.40	6.30	27.40	25.10	21.10	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 8:15 AM	169.00	5.00	26.30	23.90	0.00	27.20	26.30	21.60	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 8:30 AM	185.00	4.50	21.90	26.90	5.00	26.90	27.20	21.90	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 8:45 AM	211.00	5.10	23.00	27.40	4.40	27.40	27.10	23.00	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 9:00 AM	199.00	4.60	23.60	28.20	4.60	28.20	28.50	23.60	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 9:15 AM	174.00	3.20	27.60	24.70	0.00	34.60	27.60	23.10	24.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 9:30 AM	190.00	5.20	23.20	28.30	5.10	28.30	26.90	23.20	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 9:45 AM	204.00	3.80	25.60	29.90	4.30	29.90	27.70	25.60	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 10:00 AM	218.00	4.20	25.50	30.50	5.00	30.50	29.10	25.50	28.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 10:15 AM	194.00	5.70	25.90	30.40	4.50	30.40	29.70	25.90	28.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 10:30 AM	222.00	4.10	27.30	32.00	4.70	32.00	29.30	27.30	30.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 10:45 AM	188.00	4.40	27.20	31.80	4.60	31.80	29.80	27.20	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 11:00 AM	210.00	6.50	26.70	32.20	5.50	32.20	29.30	26.70	28.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 11:15 AM	201.00	4.70	26.90	31.70	4.80	31.70	29.50	26.90	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 11:30 AM	193.00	4.00	27.30	32.00	4.70	32.00	30.50	27.30	40.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 11:45 AM	174.00	5.40	31.20	30.20	0.00	32.70	31.20	27.90	30.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 12:00 PM	208.00	4.70	28.40	33.00	4.60	33.00	30.70	28.40	30.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 12:15 PM	190.00	4.00	28.10	32.80	4.70	32.80	33.30	28.10	31.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 12:30 PM	251.00	5.20	28.70	36.00	7.30	36.00	31.60	28.70	33.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 12:45 PM	208.00	5.10	28.60	34.10	5.50	34.10	31.50	28.60	34.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 1:00 PM	201.00	3.90	27.80	35.50	7.70	35.50	35.70	27.80	33.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 1:15 PM	202.00	5.20	28.00	33.00	5.00	33.00	35.40	28.00	35.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 1:30 PM	202.00	5.40	27.60	33.10	5.50	33.10	35.60	27.60	33.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 1:45 PM	212.00	5.40	27.90	33.40	5.50	33.40	44.10	27.90	34.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 2:00 PM	210.00	6.10	28.60	32.90	4.30	32.90	35.00	28.60	35.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 2:15 PM	208.00	6.30	27.40	33.30	5.90	33.30	32.80	27.40	32.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 2:30 PM	205.00	7.30	28.00	31.70	3.70	31.70	32.90	28.00	33.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 2:45 PM	214.00	6.00	28.00	32.90	4.90	32.90	32.50	28.00	33.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 3:00 PM	215.00	6.00	28.70	32.80	4.10	32.80	33.10	28.70	34.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 3:15 PM	220.00	6.50	29.30	33.00	3.70	33.00	33.70	29.30	36.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 3:30 PM	224.00	4.20	29.80	34.70	4.90	34.70	34.00	29.80	37.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 3:45 PM	246.00	5.40	29.80	35.60	5.80	35.60	35.80	29.80	40.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 4:00 PM	251.00	4.70	31.30	35.50	4.20	35.50	36.80	31.30	41.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 4:15 PM	231.00	5.90	31.00	34.70	3.70	34.70	37.60	31.00	40.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 4:30 PM	206.00	5.80	32.60	34.60	2.00	34.60	39.60	32.60	40.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 4:45 PM	0.00	0.00	0.00	0.00	0.00	35.30	40.00	29.60	39.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 5:00 PM	219.00	4.90	29.70	33.70	4.00	33.70	38.00	29.70	39.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 5:15 PM	211.00	7.10	29.20	33.30	4.10	33.30	40.10	29.20	38.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 5:30 PM	206.00	4.60	29.80	33.60	3.80	33.60	39.40	29.80	40.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 5:45 PM	227.00	5.00	29.50	33.10	3.60	33.10	38.10	29.50	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 6:00 PM	221.00	3.40	28.80	32.30	3.50	32.30	37.50	28.80	38.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 6:15 PM	0.00	0.00	0.00	0.00	0.00	31.90	39.90	29.90	39.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 6:30 PM	230.00	2.10	29.10	32.90	3.80	32.90	42.10	29.10	38.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 6:45 PM	225.00	2.40	28.30	31.50	3.20	31.50	40.40	28.30	36.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 7:00 PM	224.00	2.50	27.80	31.60	3.80	31.60	39.50	27.80	36.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 7:15 PM	209.00	3.60	25.70	28.40	2.70	28.40	36.90	25.70	35.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 7:30 PM	238.00	2.40	26.50	30.60	4.10	30.60	33.60	26.50	37.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 7:45 PM	235.00	1.90	25.10	30.30	5.20	30.30	32.50	25.10	36.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 8:00 PM	217.00	3.00	25.70	30.20	4.50	30.20	32.80	25.70	37.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 8:15 PM	214.00	4.50	26.90	31.50	4.60	31.50	33.20	26.90	38.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 8:30 PM	227.00	4.50	27.00	32.20	5.20	32.20	32.80	27.00	38.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 8:45 PM	223.00	2.90	28.30	32.10	3.80	32.10	33.10	28.30	38.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 9:00 PM	226.00	5.10	26.80	31.30	4.50	31.30	32.40	26.80	35.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 9:15 PM	237.00	4.70	27.90	32.80	4.90	32.80	32.70	27.90	34.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 9:30 PM	239.00	4.80	28.00	32.90	4.90	32.90	33.00	28.00	32.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 9:45 PM	227.00	3.90	28.30	33.30	5.00	33.30	32.90	28.30	32.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 10:00 PM	246.00	5.20	28.40	32.80	4.40	32.80	30.50	28.40	31.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 10:15 PM	236.00	3.50	27.40	31.50	4.10	31.50	30.70	27.40	30.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 10:30 PM	240.00	2.70	26.80	30.30	3.50	30.30	29.60	26.80	29.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 10:45 PM	225.00	2.60	26.40	30.50	4.10	30.50	30.30	26.40	28.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 11:00 PM	232.00	4.60	26.10	30.40	4.30	30.40	30.40	26.10	29.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 11:15 PM	230.00	5.50	27.00	30.70	3.70	30.70	30.10	27.00	29.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/13 11:30 PM	231.00	3.20	27.20	31.00	3.80	31.00	29.60	27.20	29.80	0.00	0.00					



US Army Corps of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
9-1-13 to 9-30-13

Table with 16 columns: Reading Time (EST), Wind Direction, Wind Speed, Particulates (µg/m³), and Naphthalene (µg/m³). The table contains 100 rows of monitoring data.



US Army Corps of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
9-1-13 to 9-30-13

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		
9/13/13 11:30 AM	36.00	11.70	4.40	6.20	1.80	4.40	7.20	6.20	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 11:45 AM	46.00	8.40	4.90	4.50	0.00	4.90	8.70	4.50	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 12:00 PM	25.00	9.60	7.10	5.70	0.00	7.10	6.50	5.70	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 12:15 PM	22.00	8.80	9.20	5.30	0.00	9.20	14.90	5.30	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 12:30 PM	18.00	6.00	8.40	6.00	0.00	8.40	13.90	6.00	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 12:45 PM	14.00	9.60	7.60	7.00	0.00	7.60	7.70	7.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 1:00 PM	16.00	7.90	7.10	8.10	1.00	7.10	8.60	8.10	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 1:15 PM	26.00	10.40	8.80	9.10	0.30	8.80	11.60	9.10	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 1:30 PM	18.00	11.80	7.20	7.20	0.00	7.20	5.90	7.20	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 1:45 PM	25.00	11.20	7.80	7.20	0.00	7.80	8.60	7.20	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 2:00 PM	30.00	10.30	7.00	6.80	0.00	7.00	6.50	6.80	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 2:15 PM	15.00	8.50	8.30	7.50	0.00	8.30	7.40	7.50	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 2:30 PM	358.00	8.70	5.00	11.10	6.10	9.60	11.10	9.50	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 2:45 PM	17.00	10.10	10.70	8.80	0.00	10.70	8.20	8.80	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 3:00 PM	6.00	9.10	13.80	8.30	0.00	13.80	8.20	8.30	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 3:15 PM	34.00	8.80	10.90	6.80	0.00	10.90	9.80	6.80	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 3:30 PM	354.00	8.80	3.60	6.60	3.00	10.20	6.60	6.90	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 3:45 PM	30.00	10.30	12.00	7.10	0.00	12.00	11.80	7.10	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 4:00 PM	30.00	9.50	16.00	9.20	0.00	16.00	13.00	9.20	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 4:15 PM	17.00	9.30	13.00	8.90	0.00	13.00	15.10	8.90	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 4:30 PM	4.00	9.10	10.60	8.20	0.00	10.60	7.50	8.20	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 4:45 PM	25.00	8.90	16.30	9.00	0.00	16.30	9.90	9.00	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 5:00 PM	14.00	9.50	11.10	7.70	0.00	11.10	5.10	7.70	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 5:15 PM	16.00	8.10	9.40	8.20	0.00	9.40	3.60	8.20	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 5:30 PM	9.00	9.60	12.30	8.80	0.00	12.30	3.50	8.80	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 5:45 PM	12.00	11.40	9.80	8.70	0.00	9.80	4.20	8.70	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 6:00 PM	15.00	9.50	12.20	10.50	0.00	12.20	4.30	10.50	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 6:15 PM	12.00	10.50	8.10	7.60	0.00	8.10	2.70	7.60	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 6:30 PM	20.00	14.10	12.80	7.90	0.00	12.80	5.40	7.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 6:45 PM	29.00	10.30	13.20	8.10	0.00	13.20	3.60	8.10	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 7:00 PM	16.00	6.40	10.30	7.90	0.00	10.30	4.60	7.90	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 7:15 PM	26.00	7.70	8.30	8.30	0.00	8.30	3.50	8.30	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 7:30 PM	25.00	8.00	12.10	8.90	0.00	12.10	4.20	8.90	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 7:45 PM	30.00	7.20	11.60	8.00	0.00	11.60	5.90	8.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 8:00 PM	28.00	8.50	9.60	7.80	0.00	9.60	3.70	7.80	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 8:15 PM	36.00	7.80	11.40	8.60	0.00	11.40	4.70	8.60	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 8:30 PM	35.00	5.50	7.90	6.80	0.00	7.90	4.10	6.80	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 8:45 PM	52.00	8.20	8.00	9.70	1.70	8.00	3.00	9.70	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 9:00 PM	35.00	8.70	8.70	10.20	1.50	8.70	3.80	10.20	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 9:15 PM	53.00	7.30	6.30	7.70	1.40	6.30	3.00	7.70	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 9:30 PM	19.00	5.80	6.50	8.20	1.70	6.50	4.10	8.20	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 9:45 PM	39.00	7.50	7.00	7.10	0.10	7.00	3.40	7.10	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 10:00 PM	40.00	6.50	6.40	7.90	1.50	6.40	5.60	7.90	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 10:15 PM	27.00	7.50	0.00	7.00	0.00	0.00	4.60	7.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 10:30 PM	49.00	5.90	5.90	7.50	1.60	5.90	4.70	7.50	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 10:45 PM	49.00	6.10	5.60	5.00	0.00	5.60	5.50	5.00	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 11:00 PM	71.00	3.90	5.00	5.50	0.50	5.00	5.60	5.50	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 11:15 PM	35.00	5.90	4.70	5.90	1.20	4.70	3.20	5.90	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 11:30 PM	48.00	4.60	5.00	5.60	0.60	5.00	9.60	5.60	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/13/13 11:45 PM	46.00	4.80	4.40	6.00	1.60	4.40	2.70	6.00	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/14/13 12:00 AM	52.00	4.40	5.40	7.10	1.70	5.40	3.60	7.10	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/14/13 12:15 AM	37.00	2.70	4.10	5.90	1.80	4.10	1.90	5.90	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/14/13 12:30 AM	60.00	2.80	4.40	0.00	0.00	4.40	1.90	0.00	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/14/13 12:45 AM	103.00	2.20	2.20	5.80	3.60	5.20	2.20	6.50	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/14/13 1:00 AM	184.00	1.80	6.60	5.00	0.00	5.00	2.70	6.60	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/14/13 1:15 AM	194.00	2.40	8.00	5.60	0.00	5.60	5.00	8.00	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/14/13 1:30 AM	202.00	1.60	8.60	6.50	0.00	6.50	5.30	8.60	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/14/13 1:45 AM	195.00	2.10	8.10	8.60	0.50	8.60	6.80	8.10	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/14/13 2:00 AM	212.00	1.90	7.50	7.00	0.00	7.00	5.50	7.50	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/14/13 2:15 AM	221.00	1.70	9.20	7.30	0.00	7.30	7.10	9.20	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/14/13 2:30 AM	220.00	1.90	8.90	7.20	0.00	7.20	6.90	8.90	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/14/13 2:45 AM	215.00	2.20	9.30	6.70	0.00	6.70	6.90	9.30	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/14/13 3:00 AM	213.00	1.80	9.10	6.30	0.00	6.30	6.50	9.10	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/14/13 3:15 AM	222.00	1.80	9.30	6.30	0.00	6.30	6.50	9.30	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/14/13 3:30 AM	219.00	2.70	9.20	6.70	0.00	6.70	6.80	9.20	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/14/13 3:45 AM	219.00	2.30	7.80	7.70	0.00	7.70	8.30	7.80	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/14/13 4:00 AM	228.00	1.50	6.30	7.90	1.60	7.90	9.80	6.30	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/14/13 4:15 AM	224.00	2.0																



US Army Corps
of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
9-1-13 to 9-30-13

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		
9/16/13 1:45 PM	22.00	7.60	5.70	7.60	1.90	5.70	4.90	7.60	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 2:00 PM	35.00	5.50	7.10	7.50	0.40	7.10	3.50	7.50	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 2:15 PM	11.00	6.40	6.30	6.40	0.10	6.30	3.70	6.40	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 2:30 PM	55.00	7.00	5.90	5.70	0.00	5.90	3.60	5.70	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 2:45 PM	14.00	7.70	6.00	5.10	0.00	6.00	3.40	5.10	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 3:00 PM	5.00	6.10	6.50	4.90	0.00	6.50	3.70	4.90	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 3:15 PM	65.00	7.40	6.10	4.60	0.00	6.10	3.80	4.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 3:30 PM	25.00	6.80	6.00	4.50	0.00	6.00	4.00	4.50	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 3:45 PM	25.00	5.70	6.00	4.60	0.00	6.00	4.10	4.60	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 4:00 PM	47.00	7.00	6.30	4.70	0.00	6.30	4.70	4.70	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 4:15 PM	41.00	5.40	5.90	4.80	0.00	5.90	6.00	4.80	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 4:30 PM	40.00	5.90	5.40	4.90	0.00	5.40	4.40	4.90	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 4:45 PM	19.00	8.40	5.10	4.30	0.00	5.10	7.00	4.30	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 5:00 PM	38.00	5.80	5.00	4.00	0.00	5.00	4.50	4.00	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 5:15 PM	46.00	5.90	5.30	4.10	0.00	5.30	4.50	4.10	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 5:30 PM	56.00	6.70	5.60	4.90	0.00	5.60	4.30	4.90	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 5:45 PM	44.00	3.80	0.00	5.40	0.00	0.00	5.10	5.40	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 6:00 PM	20.00	4.30	5.60	4.80	0.00	5.60	4.80	4.80	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 6:15 PM	54.00	5.30	6.10	4.80	0.00	6.10	3.40	4.80	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 6:30 PM	41.00	7.30	5.50	4.90	0.00	5.50	3.90	4.90	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 6:45 PM	40.00	5.70	6.20	4.50	0.00	6.20	3.70	4.50	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 7:00 PM	35.00	5.00	5.10	4.70	0.00	5.10	4.20	4.70	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 7:15 PM	48.00	5.40	5.20	3.50	0.00	5.20	3.50	3.50	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 7:30 PM	23.00	6.50	5.60	3.40	0.00	5.60	4.90	3.40	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 7:45 PM	36.00	5.50	4.90	2.60	0.00	4.90	6.00	2.60	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 8:00 PM	69.00	4.00	4.90	2.20	0.00	4.90	6.90	2.20	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 8:15 PM	35.00	4.80	4.20	1.90	0.00	4.20	8.40	1.90	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 8:30 PM	46.00	3.50	6.20	2.50	0.00	6.20	11.90	2.50	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 8:45 PM	36.00	3.90	5.20	2.20	0.00	5.20	9.60	2.20	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 9:00 PM	69.00	3.70	4.50	2.10	0.00	4.50	6.40	2.10	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 9:15 PM	65.00	4.50	3.90	2.00	0.00	3.90	6.50	2.00	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 9:30 PM	65.00	4.30	3.30	2.10	0.00	3.30	5.90	2.10	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 9:45 PM	79.00	5.60	3.80	2.10	0.00	3.80	6.40	2.10	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 10:00 PM	71.00	5.10	3.30	2.30	0.00	3.30	7.10	2.30	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 10:15 PM	79.00	5.50	4.90	2.60	0.00	4.90	6.80	2.60	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 10:30 PM	90.00	5.40	3.90	3.70	0.00	4.70	3.90	3.70	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 10:45 PM	93.00	8.50	4.60	5.10	0.50	6.30	4.60	3.70	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 11:00 PM	104.00	3.80	6.50	9.40	2.90	6.40	6.50	4.00	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 11:15 PM	119.00	4.90	17.00	10.60	0.00	7.40	17.00	7.90	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 11:30 PM	100.00	2.80	11.40	7.90	0.00	0.00	11.40	7.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/16/13 11:45 PM	156.00	3.70	15.10	10.10	0.00	8.00	15.10	7.70	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 12:00 AM	115.00	4.80	13.30	15.50	2.20	7.10	13.30	10.40	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 12:30 AM	128.00	3.30	16.10	12.30	0.00	9.50	16.10	11.50	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 12:45 AM	120.00	2.00	17.40	17.70	0.30	12.40	17.40	11.40	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 1:00 AM	122.00	3.40	16.50	28.20	11.70	17.70	16.50	10.30	28.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 1:15 AM	118.00	4.50	22.60	14.80	0.00	22.70	22.60	11.30	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 1:30 AM	116.00	2.90	22.10	51.30	29.20	28.40	22.10	13.90	51.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 1:45 AM	151.00	3.20	17.20	18.90	1.70	14.00	17.20	12.20	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 2:00 AM	132.00	3.10	17.00	21.40	4.40	15.30	17.00	12.70	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 2:15 AM	139.00	3.10	22.30	20.80	0.00	16.30	22.30	12.70	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 2:30 AM	145.00	1.80	17.10	26.20	9.10	16.40	17.10	11.10	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 2:45 AM	152.00	3.50	12.40	25.60	13.20	13.40	12.40	9.30	25.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 3:00 AM	187.00	2.40	8.40	16.60	8.20	16.60	11.40	8.40	30.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 3:15 AM	146.00	4.20	11.60	25.70	14.10	14.10	11.60	8.20	25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 3:30 AM	187.00	2.70	8.10	14.00	5.90	14.00	11.40	8.10	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 3:45 AM	176.00	3.60	12.50	18.90	6.40	21.50	12.50	8.80	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 4:00 AM	179.00	3.30	13.10	14.90	1.80	15.00	13.10	9.30	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 4:15 AM	161.00	3.90	12.40	15.70	3.30	16.90	12.40	9.90	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 4:30 AM	170.00	4.10	14.80	15.30	0.50	14.60	14.80	10.70	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 4:45 AM	164.00	4.00	11.90	13.40	1.50	14.50	11.90	11.00	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 5:00 AM	165.00	3.80	12.60	12.40	0.00	13.30	12.60	13.60	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 5:15 AM	189.00	3.40	51.70	13.50	0.00	13.50	52.30	51.70	27.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 5:30 AM	176.00	4.40	83.50	52.10	0.00	12.70	83.50	45.70	52.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 5:45 AM	156.00	3.40	35.40	31.30	0.00	15.50	35.40	21.10	31.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 6:00 AM	172.00	4.90	25.40	23.30	0.00	16.60	25.40	13.70	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 6:15 AM	175.00	3.60	25.10	22.30	0.00	16.30	25.10	10.30	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/17/13 6:30 AM	181.00	3.40	10.50	18.90	8.40	18.90	17.10	10.50	17.9									



**US Army Corps
of Engineers**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
9-1-13 to 9-30-13

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
9/17/13 2:45 PM	156.00	4.80	10.00	7.60	0.00	11.90	10.00	8.00	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 3:00 PM	190.00	2.20	8.90	13.40	4.50	13.40	9.90	8.90	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 3:15 PM	148.00	2.10	9.20	7.20	0.00	12.30	9.20	8.80	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 3:30 PM	93.00	2.60	10.20	8.00	0.00	12.20	10.20	9.40	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 3:45 PM	98.00	3.00	16.40	8.30	0.00	14.10	16.40	9.80	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 4:00 PM	105.00	3.50	9.90	8.50	0.00	13.50	9.90	9.90	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 4:15 PM	154.00	3.00	10.00	9.90	0.00	12.30	10.00	10.20	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 4:30 PM	165.00	3.80	10.90	9.50	0.00	14.70	10.90	9.70	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 4:45 PM	136.00	2.50	10.80	9.90	0.00	17.40	10.80	9.30	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 5:00 PM	79.00	3.00	14.90	9.00	0.00	14.90	11.60	9.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 5:15 PM	84.00	4.20	14.90	9.20	0.00	14.90	13.30	9.20	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 5:30 PM	79.00	3.20	13.00	8.60	0.00	13.00	12.30	8.60	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 5:45 PM	76.00	4.20	24.60	9.20	0.00	24.60	14.00	9.20	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 6:00 PM	58.00	4.10	26.20	8.90	0.00	26.20	11.20	8.90	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 6:15 PM	84.00	2.10	21.40	11.70	0.00	21.40	14.10	11.70	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 6:30 PM	119.00	2.70	15.00	18.20	3.20	19.60	15.00	10.90	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 6:45 PM	136.00	1.80	15.50	14.70	0.00	26.20	15.50	11.90	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 7:00 PM	145.00	1.60	13.60	10.90	0.00	22.60	13.60	11.50	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 7:15 PM	126.00	3.20	13.80	10.10	0.00	22.50	13.80	10.10	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 7:30 PM	141.00	3.20	17.40	10.40	0.00	15.20	17.40	11.40	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 7:45 PM	138.00	2.60	9.60	9.00	0.00	13.70	9.60	8.10	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 8:00 PM	126.00	3.50	10.40	8.70	0.00	13.10	10.40	7.60	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 8:15 PM	126.00	3.90	10.50	10.60	0.10	13.00	10.50	8.00	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 8:30 PM	137.00	3.60	11.80	17.70	5.90	14.80	11.80	9.20	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 8:45 PM	138.00	1.90	12.80	11.40	0.00	14.90	12.80	11.00	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 9:00 PM	155.00	1.90	14.10	12.20	0.00	15.10	14.10	10.00	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 9:15 PM	150.00	3.40	14.60	13.90	0.00	15.90	14.60	10.90	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 9:30 PM	135.00	2.30	14.90	16.60	1.70	17.50	14.90	13.30	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 9:45 PM	140.00	3.40	15.00	19.80	4.80	18.60	15.00	12.80	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 10:00 PM	135.00	2.30	16.90	23.00	6.10	20.70	16.90	13.80	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 10:15 PM	161.00	3.20	14.60	26.50	11.90	21.60	14.60	15.70	26.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 10:30 PM	153.00	1.90	13.80	27.40	13.60	20.90	13.80	14.60	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 10:45 PM	158.00	3.40	12.20	23.90	11.70	26.00	12.20	15.90	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 11:00 PM	151.00	2.30	12.00	22.50	10.50	26.80	12.00	15.90	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 11:15 PM	169.00	2.90	11.50	19.80	8.30	29.30	11.50	16.40	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 11:30 PM	160.00	2.30	12.10	15.30	3.20	23.60	12.10	16.00	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/13 11:45 PM	171.00	2.00	12.10	14.40	2.30	20.80	12.10	17.00	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 12:00 AM	150.00	2.50	13.00	13.00	0.00	19.50	13.00	18.00	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 12:15 AM	164.00	3.60	19.80	13.40	0.00	20.50	19.80	19.80	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 12:30 AM	169.00	3.40	22.60	13.80	0.00	21.50	22.60	19.80	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 12:45 AM	167.00	2.90	27.10	12.00	0.00	16.70	27.10	18.20	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 1:00 AM	170.00	3.10	22.40	15.60	0.00	15.70	22.40	17.50	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 1:15 AM	165.00	2.10	19.50	10.70	0.00	16.40	19.50	17.20	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 1:30 AM	171.00	2.00	18.70	9.20	0.00	17.90	18.70	17.80	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 1:45 AM	181.00	1.20	17.50	20.50	3.00	20.50	20.10	17.50	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 2:00 AM	199.00	1.80	16.60	18.90	2.30	18.90	20.60	16.60	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 2:15 AM	186.00	3.30	16.20	15.90	0.00	15.90	22.40	16.20	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 2:30 AM	189.00	3.60	18.40	19.60	1.20	19.60	22.10	18.40	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 2:45 AM	173.00	2.40	23.60	13.00	0.00	14.40	23.60	19.00	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 3:00 AM	0.00	0.00	0.00	0.00	0.00	16.00	26.10	16.60	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 3:15 AM	179.00	2.20	22.70	18.30	0.00	13.70	22.70	16.10	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 3:30 AM	177.00	3.00	18.90	17.30	0.00	13.10	18.90	14.50	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 3:45 AM	156.00	2.70	18.50	16.70	0.00	13.10	18.50	14.50	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 4:00 AM	176.00	2.70	17.50	14.70	0.00	13.70	17.50	13.20	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 4:15 AM	165.00	1.80	17.50	11.90	0.00	14.30	17.50	13.10	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 4:30 AM	160.00	2.70	16.30	10.80	0.00	15.50	16.30	12.90	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 4:45 AM	178.00	2.10	16.30	9.60	0.00	14.70	16.30	13.10	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 5:00 AM	172.00	1.70	16.70	9.60	0.00	15.70	16.70	13.80	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 5:15 AM	191.00	2.00	13.60	16.30	2.70	16.30	16.70	13.60	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 5:30 AM	166.00	2.80	16.80	10.40	0.00	16.30	16.80	13.30	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 5:45 AM	166.00	2.70	16.40	12.00	0.00	15.50	16.40	12.80	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 6:00 AM	177.00	3.30	17.40	12.30	0.00	16.70	17.40	11.90	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 6:15 AM	0.00	0.00	0.00	0.00	0.00	16.00	21.30	11.70	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 6:30 AM	169.00	4.70	18.90	15.00	0.00	17.70	18.90	11.70	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 6:45 AM	187.00	2.70	12.20	16.70	4.50	16.70	17.60	12.20	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 7:00 AM	174.00	4.20	21.70	13.20	0.00	17.20	21.70	13.30	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 7:15 AM	195.00	3.20	14.10	17.70	3.60	17.70	19.00	14.10	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 7:30 AM	168.00	4.20	20.70	12.50	0.00	16.80	20.70	15.50	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/13 7:45 AM	187.00	2.60	15.80	0.00	0.00	0.00	20.20	15.80	14.30	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		
9/19/13 4:15 PM	169.00	3.40	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 4:30 PM	169.00	5.90	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 4:45 PM	162.00	8.10	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 5:00 PM	173.00	7.80	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 5:15 PM	175.00	5.20	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 5:30 PM	163.00	10.30	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 5:45 PM	162.00	6.20	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 6:00 PM	168.00	8.00	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 6:15 PM	187.00	6.30	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 6:30 PM	173.00	6.40	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 6:45 PM	195.00	4.20	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 7:00 PM	182.00	5.40	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 7:15 PM	203.00	5.00	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 7:30 PM	177.00	5.90	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 7:45 PM	172.00	4.20	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 8:00 PM	194.00	4.80	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 8:15 PM	179.00	3.70	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 8:30 PM	170.00	4.30	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 8:45 PM	196.00	5.10	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 9:00 PM	168.00	4.90	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 9:15 PM	184.00	4.20	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 9:30 PM	204.00	8.00	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 9:45 PM	189.00	5.60	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 10:00 PM	198.00	4.70	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 10:15 PM	192.00	4.70	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 10:30 PM	174.00	5.20	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 10:45 PM	197.00	6.30	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 11:00 PM	182.00	5.10	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 11:15 PM	209.00	4.40	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 11:30 PM	200.00	3.30	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/19/13 11:45 PM	207.00	3.70	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 12:00 AM	244.00	3.30	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 12:15 AM	263.00	2.30	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 12:30 AM	218.00	3.30	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 12:45 AM	262.00	3.00	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 1:00 AM	239.00	4.30	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 1:15 AM	0.00	0.00	0.00	0.00	0.00	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 1:30 AM	250.00	5.10	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 1:45 AM	288.00	8.10	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 2:00 AM	271.00	7.00	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 2:15 AM	289.00	2.80	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 2:30 AM	243.00	3.20	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 2:45 AM	202.00	3.00	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 3:00 AM	179.00	2.20	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 3:15 AM	207.00	3.10	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 3:30 AM	162.00	3.00	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 3:45 AM	192.00	2.40	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 4:00 AM	182.00	3.10	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 4:15 AM	214.00	2.60	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 4:30 AM	219.00	3.60	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 4:45 AM	272.00	3.30	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 5:00 AM	257.00	4.50	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 5:15 AM	261.00	2.90	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 5:30 AM	258.00	3.60	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 5:45 AM	242.00	5.00	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 6:00 AM	234.00	3.20	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 6:15 AM	253.00	4.50	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 6:30 AM	249.00	4.00	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 6:45 AM	247.00	5.00	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 7:00 AM	249.00	5.00	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 7:15 AM	233.00	4.10	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 7:30 AM	247.00	4.00	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 7:45 AM	241.00	5.30	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 8:00 AM	233.00	4.20	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 8:15 AM	264.00	5.30	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 8:30 AM	241.00	7.20	17.30	18.60	1.30	18.60	35.10											



**US Army Corps
of Engineers**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
9-1-13 to 9-30-13

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		
9/20/13 5:00 PM	289.00	3.10	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 5:15 PM	272.00	5.50	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 5:30 PM	278.00	5.70	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 5:45 PM	301.00	2.80	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 6:00 PM	270.00	3.20	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 6:15 PM	286.00	6.00	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 6:30 PM	297.00	4.60	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 6:45 PM	304.00	3.80	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 7:00 PM	278.00	4.00	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 7:15 PM	269.00	2.10	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 7:30 PM	267.00	3.50	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 7:45 PM	306.00	3.00	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 8:00 PM	313.00	3.90	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 8:15 PM	296.00	6.00	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 8:30 PM	303.00	4.10	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 8:45 PM	337.00	4.40	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 9:00 PM	319.00	5.80	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 9:15 PM	314.00	3.20	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 9:30 PM	290.00	3.00	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 9:45 PM	284.00	4.50	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 10:00 PM	275.00	2.80	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 10:15 PM	309.00	3.90	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 10:30 PM	292.00	3.20	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 10:45 PM	308.00	3.90	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 11:00 PM	312.00	3.00	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 11:15 PM	310.00	5.70	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 11:30 PM	326.00	4.30	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/20/13 11:45 PM	311.00	5.00	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 12:00 AM	315.00	2.40	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 12:15 AM	310.00	3.60	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 12:30 AM	308.00	2.40	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 12:45 AM	313.00	3.70	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 1:00 AM	303.00	3.90	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 1:15 AM	310.00	4.50	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 1:30 AM	325.00	4.00	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 1:45 AM	294.00	3.00	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 2:00 AM	315.00	3.20	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 2:15 AM	332.00	2.90	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 2:30 AM	300.00	3.40	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 2:45 AM	311.00	2.30	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 3:00 AM	305.00	2.50	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 3:15 AM	294.00	2.00	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 3:30 AM	314.00	3.70	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 3:45 AM	314.00	2.80	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 4:00 AM	299.00	2.00	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 4:15 AM	311.00	3.00	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 4:30 AM	320.00	4.30	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 4:45 AM	307.00	5.10	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 5:00 AM	323.00	3.60	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 5:15 AM	314.00	4.80	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 5:30 AM	340.00	3.90	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 5:45 AM	337.00	3.00	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 6:00 AM	354.00	3.00	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 6:15 AM	348.00	2.80	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 6:30 AM	334.00	2.50	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 6:45 AM	347.00	2.10	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 7:00 AM	340.00	4.10	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 7:15 AM	317.00	3.40	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 7:30 AM	331.00	4.90	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 7:45 AM	0.00	3.00	18.60	17.30	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 8:00 AM	336.00	3.80	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 8:15 AM	323.00	5.50	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 8:30 AM	322.00	4.90	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 8:45 AM	1.00	3.00	18.60	17.30	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 9:00 AM	345.00	2.40	7.80	35.10	27.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/21/13 9:15 AM	7.00	6.70	18.60	17.30	0.00	18												



**US Army Corps
of Engineers**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
9-1-13 to 9-30-13

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		
9/22/13 6:45 PM	59.00	3.30	18.60	17.30	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/22/13 7:00 PM	67.00	4.00	18.60	17.30	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/22/13 7:15 PM	70.00	2.50	18.60	17.30	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/22/13 7:30 PM	35.00	4.80	18.60	17.30	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/22/13 7:45 PM	53.00	3.50	18.60	17.30	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/22/13 8:00 PM	74.00	4.50	18.60	17.30	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/22/13 8:15 PM	75.00	3.30	18.60	17.30	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/22/13 8:30 PM	82.00	4.00	18.60	17.30	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/22/13 8:45 PM	74.00	5.50	18.60	17.30	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/22/13 9:00 PM	79.00	3.50	18.60	17.30	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/22/13 9:15 PM	83.00	2.80	18.60	17.30	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/22/13 9:30 PM	81.00	4.60	18.60	17.30	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/22/13 9:45 PM	80.00	5.70	18.60	17.30	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/22/13 10:00 PM	80.00	4.40	18.60	17.30	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/22/13 10:15 PM	76.00	5.30	18.60	17.30	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/22/13 10:30 PM	83.00	3.90	18.60	17.30	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/22/13 10:45 PM	68.00	6.00	18.60	17.30	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/22/13 11:00 PM	62.00	4.30	18.60	17.30	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/22/13 11:15 PM	84.00	5.10	18.60	17.30	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/22/13 11:30 PM	74.00	5.00	18.60	17.30	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 11:45 PM	160.00	3.30	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 12:00 AM	156.00	2.40	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 12:15 AM	171.00	3.20	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 12:30 AM	150.00	2.70	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 12:45 AM	137.00	3.50	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 1:00 AM	144.00	3.00	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 1:15 AM	162.00	2.40	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 1:30 AM	148.00	3.40	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 1:45 AM	150.00	3.40	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 2:00 AM	129.00	3.90	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 2:15 AM	120.00	2.90	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 2:30 AM	151.00	3.90	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 2:45 AM	142.00	4.10	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 3:00 AM	145.00	4.60	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 3:15 AM	126.00	3.40	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 3:30 AM	159.00	3.30	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 3:45 AM	139.00	2.40	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 4:00 AM	155.00	2.30	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 4:15 AM	140.00	2.50	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 4:30 AM	234.00	0.80	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 4:45 AM	148.00	1.60	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 5:00 AM	156.00	2.90	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 5:15 AM	154.00	2.20	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 5:30 AM	143.00	2.10	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 5:45 AM	152.00	2.00	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 6:00 AM	154.00	1.80	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 6:15 AM	150.00	1.70	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 6:30 AM	173.00	1.20	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 6:45 AM	153.00	1.70	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 7:00 AM	125.00	3.00	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 7:15 AM	131.00	4.00	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 7:30 AM	137.00	3.40	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 7:45 AM	133.00	4.30	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 8:00 AM	145.00	3.90	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 8:15 AM	146.00	3.10	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 8:30 AM	156.00	2.40	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 8:45 AM	152.00	3.40	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 9:00 AM	180.00	2.90	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 9:15 AM	168.00	3.60	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 9:30 AM	201.00	2.60	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 9:45 AM	144.00	1.80	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 10:00 AM	140.00	2.20	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 10:15 AM	234.00	0.90	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 10:30 AM	264.00	0.90	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 10:45 AM	138.00	1.80	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9/23/13 11:00 AM	212.00	1.20	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00</							



US Army Corps of Engineers

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9-1-13 to 9-30-13

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
9/23/13 7:30 PM	73.00	4.60	41.10	17.30	0.00	41.10	35.10	17.30	40.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/13 7:45 PM	130.00	4.90	35.10	45.70	10.60	20.20	35.10	17.30	45.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/13 8:00 PM	118.00	4.10	35.30	13.00	0.00	19.80	35.30	21.30	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/13 8:15 PM	145.00	2.60	35.10	19.20	0.00	22.50	35.10	17.30	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/13 8:30 PM	134.00	3.10	35.10	15.20	0.00	19.90	35.10	17.30	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/13 8:45 PM	137.00	3.00	35.10	14.10	0.00	22.60	35.10	17.90	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/13 9:00 PM	130.00	3.30	35.10	12.90	0.00	18.60	35.10	17.30	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/13 9:15 PM	149.00	3.30	35.10	12.50	0.00	18.60	35.10	17.30	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/13 9:30 PM	134.00	3.20	35.10	16.50	0.00	18.60	35.10	17.30	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/13 9:45 PM	134.00	4.50	35.10	19.70	0.00	18.60	35.10	17.30	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/13 10:00 PM	140.00	4.50	35.10	31.80	0.00	25.30	35.10	17.30	31.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/13 10:15 PM	131.00	4.30	35.10	26.60	0.00	24.80	35.10	19.70	26.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/13 10:30 PM	151.00	4.10	35.10	24.70	0.00	18.60	35.10	17.30	24.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/13 10:45 PM	132.00	3.60	35.10	20.90	0.00	22.60	35.10	17.30	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/13 11:00 PM	149.00	5.50	35.10	24.50	0.00	19.70	35.10	17.30	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/13 11:15 PM	131.00	3.10	35.10	25.30	0.00	22.50	35.10	17.30	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/13 11:30 PM	161.00	5.70	35.10	24.90	0.00	22.20	35.10	17.30	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/13 11:45 PM	161.00	2.50	35.10	24.40	0.00	23.20	35.10	17.30	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 12:00 AM	160.00	5.30	35.10	18.10	0.00	26.00	35.10	17.30	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 12:15 AM	164.00	3.50	35.10	25.30	0.00	26.30	35.10	17.30	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 12:30 AM	149.00	4.20	35.10	19.60	0.00	27.20	35.10	17.30	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 12:45 AM	141.00	3.40	35.10	19.20	0.00	25.80	35.10	17.30	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 1:00 AM	143.00	3.20	35.10	16.30	0.00	22.10	35.10	17.60	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 1:15 AM	187.00	2.90	18.20	19.60	1.40	19.60	35.10	18.20	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 1:30 AM	153.00	3.70	35.10	15.00	0.00	19.70	35.10	19.70	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 1:45 AM	161.00	6.00	35.10	14.50	0.00	22.40	35.10	18.70	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 2:00 AM	151.00	4.20	35.10	16.90	0.00	25.30	35.10	17.40	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 2:15 AM	148.00	4.20	35.10	16.90	0.00	24.70	35.10	17.30	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 2:30 AM	169.00	3.30	35.10	16.10	0.00	22.60	35.10	17.30	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 2:45 AM	159.00	3.20	35.10	17.00	0.00	21.00	35.10	17.30	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 3:00 AM	143.00	5.50	35.10	15.90	0.00	18.70	35.10	17.30	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 3:15 AM	175.00	3.80	35.10	12.60	0.00	19.00	35.10	17.30	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 3:30 AM	180.00	3.80	17.30	19.10	1.80	19.10	35.10	17.30	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 3:45 AM	169.00	4.70	35.10	11.50	0.00	18.60	35.10	17.30	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 4:00 AM	176.00	3.90	35.10	10.00	0.00	18.80	35.10	17.30	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 4:15 AM	157.00	4.20	35.10	11.40	0.00	18.60	35.10	17.30	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 4:30 AM	177.00	4.80	35.10	11.80	0.00	18.60	35.10	17.30	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 4:45 AM	165.00	3.90	35.10	12.60	0.00	18.80	35.10	18.40	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 5:00 AM	162.00	3.40	35.10	14.70	0.00	18.60	35.10	19.40	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 5:15 AM	176.00	5.10	35.10	15.60	0.00	18.60	35.10	19.30	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 5:30 AM	171.00	3.70	35.10	17.30	0.00	18.60	35.10	19.40	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 5:45 AM	166.00	3.10	35.10	18.40	0.00	18.60	35.10	18.40	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 6:00 AM	160.00	4.60	35.10	19.00	0.00	18.60	35.10	17.30	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 6:15 AM	165.00	3.30	35.10	19.40	0.00	18.60	35.10	17.30	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 6:30 AM	169.00	3.50	43.10	21.30	0.00	18.60	43.10	17.30	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 6:45 AM	157.00	3.90	35.10	20.80	0.00	18.60	35.10	17.30	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 7:00 AM	169.00	4.00	35.10	17.40	0.00	20.00	35.10	17.30	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 7:15 AM	176.00	4.60	35.10	16.20	0.00	20.70	35.10	17.30	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 7:30 AM	174.00	5.00	35.10	16.50	0.00	19.50	35.10	17.30	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 7:45 AM	165.00	3.50	35.10	19.00	0.00	22.40	35.10	17.40	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 8:00 AM	181.00	3.50	18.10	20.60	2.50	20.60	35.10	18.10	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 8:15 AM	177.00	4.00	35.10	19.20	0.00	22.80	35.10	17.60	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 8:30 AM	189.00	5.90	17.30	22.80	5.50	22.80	35.10	17.30	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 8:45 AM	185.00	3.90	17.30	20.40	3.10	20.40	35.10	17.30	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 9:00 AM	180.00	6.20	17.30	20.60	3.30	20.60	35.10	17.30	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 9:15 AM	183.00	4.00	17.30	18.80	1.50	18.80	35.10	17.30	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 9:30 AM	177.00	4.60	35.10	16.20	0.00	18.90	35.10	17.30	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 9:45 AM	168.00	5.30	35.10	12.60	0.00	20.00	35.10	17.30	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 10:00 AM	143.00	4.70	35.10	10.10	0.00	18.60	35.10	17.30	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 10:15 AM	179.00	4.00	35.10	9.40	0.00	18.60	35.10	17.30	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 10:30 AM	161.00	3.50	35.10	8.50	0.00	18.60	35.10	17.30	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 10:45 AM	159.00	3.10	35.10	8.70	0.00	18.60	35.10	17.30	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 11:00 AM	171.00	2.80	35.10	12.10	0.00	18.60	35.10	17.30	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 11:15 AM	144.00	3.30	35.10	8.00	0.00	18.60	35.10	17.30	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 11:30 AM	186.00	4.70	17.30	18.60	1.30	18.60	35.10	17.30	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 11:45 AM	179.00	3.70	35.10	11.70	0.00	18.60	35.10	17.30	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 12:00 PM	162.00	4.50	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 12:15 PM	150.00	3.80	35.10	8.60	0.00	18.60	35.10	17.30	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/13 12:30 PM	56.00	4.20	18.60	17.30	0.00	18.60										



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
9/30/13 12:00 AM	248.00	1.30	17.30	20.80	3.50	20.80	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 12:15 AM	241.00	1.40	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 12:30 AM	234.00	1.20	17.30	18.60	1.30	18.60	35.10	17.30	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 12:45 AM	259.00	1.90	17.30	19.30	2.00	19.30	35.10	17.30	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 1:00 AM	273.00	1.70	12.60	35.10	22.50	20.10	35.10	17.30	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 1:15 AM	199.00	0.70	17.30	18.60	1.30	18.60	35.10	17.30	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 1:30 AM	208.00	0.60	22.20	32.10	9.90	32.10	35.10	22.20	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 1:45 AM	262.00	1.20	22.60	33.70	11.10	33.70	35.10	22.60	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 2:00 AM	196.00	1.00	22.40	35.60	13.20	35.60	35.10	22.40	25.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 2:15 AM	223.00	1.10	24.60	37.10	12.50	37.10	35.10	24.60	26.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 2:30 AM	265.00	1.20	24.10	41.30	17.20	41.30	35.10	24.10	24.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 2:45 AM	263.00	1.70	25.80	37.20	11.40	37.20	35.10	25.80	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 3:00 AM	236.00	0.80	29.20	35.70	6.50	35.70	35.10	29.20	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 3:15 AM	198.00	0.40	25.10	31.90	6.80	31.90	35.10	25.10	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 3:30 AM	195.00	0.70	22.50	30.00	7.50	30.00	35.10	22.50	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 3:45 AM	237.00	0.50	21.60	27.40	5.80	27.40	35.10	21.60	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 4:00 AM	0.00	0.00	0.00	0.00	0.00	0.00	28.60	35.10	20.90	20.40	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 4:15 AM	236.00	1.00	21.00	26.70	5.70	26.70	35.10	21.00	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 4:30 AM	261.00	1.10	22.40	27.40	5.00	27.40	35.10	22.40	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 4:45 AM	221.00	1.10	21.80	24.90	3.10	24.90	35.10	21.80	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 5:00 AM	231.00	1.10	22.80	26.50	3.70	26.50	35.10	22.80	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 5:15 AM	209.00	1.40	24.10	29.60	5.50	29.60	35.10	24.10	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 5:30 AM	207.00	1.20	26.00	30.00	4.00	30.00	35.10	26.00	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 5:45 AM	210.00	1.40	26.50	30.20	3.70	30.20	35.10	26.50	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 6:00 AM	220.00	1.50	28.80	29.30	0.50	29.30	35.10	28.80	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 6:15 AM	177.00	1.70	35.10	23.10	0.00	27.10	35.10	28.30	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 6:30 AM	225.00	1.10	27.00	26.80	0.00	26.80	35.10	27.00	27.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 6:45 AM	239.00	1.70	26.60	27.20	0.60	27.20	35.10	26.60	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 7:00 AM	209.00	1.40	26.90	28.50	1.60	28.50	35.10	26.90	26.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 7:15 AM	218.00	1.30	26.30	28.00	1.70	28.00	35.10	26.30	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 7:30 AM	215.00	1.40	28.70	27.60	0.00	27.60	35.10	28.70	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 7:45 AM	208.00	1.10	29.40	30.70	1.30	30.70	35.10	29.40	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 8:00 AM	0.00	0.00	0.00	0.00	0.00	33.10	35.10	30.50	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 8:15 AM	221.00	2.40	30.00	33.80	3.80	33.80	35.10	30.00	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 8:30 AM	216.00	1.80	33.20	37.20	4.00	37.20	35.10	33.20	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 8:45 AM	238.00	1.80	32.60	36.60	4.00	36.60	37.80	32.60	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 9:00 AM	207.00	1.00	25.10	35.40	10.30	35.40	39.80	25.10	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 9:15 AM	254.00	2.40	19.60	32.50	12.90	32.50	35.10	19.60	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 9:30 AM	215.00	2.70	18.20	27.90	9.70	27.90	35.10	18.20	23.40	0.00	0.00	0.00	0.00	4.90	0.00	0.00
9/30/13 9:45 AM	204.00	1.40	17.30	29.10	11.80	29.10	35.10	17.30	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 10:00 AM	195.00	1.80	17.30	26.50	9.20	26.50	35.10	17.30	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 10:15 AM	165.00	2.50	35.10	12.80	0.00	18.60	35.10	17.30	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 10:30 AM	198.00	1.90	17.30	18.60	1.30	18.60	35.10	17.30	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 10:45 AM	210.00	2.90	17.30	18.70	1.40	18.70	35.10	17.30	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 11:00 AM	142.00	1.80	35.10	14.50	0.00	20.80	35.10	17.30	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 11:15 AM	166.00	3.20	35.10	8.20	0.00	18.60	35.10	17.30	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 11:30 AM	135.00	3.70	35.10	7.80	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 11:45 AM	200.00	1.50	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 12:00 PM	232.00	1.80	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 12:15 PM	181.00	2.30	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 12:30 PM	206.00	3.60	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 12:45 PM	209.00	4.90	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 1:00 PM	199.00	1.30	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 1:15 PM	238.00	2.80	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 1:30 PM	214.00	2.90	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 1:45 PM	223.00	2.30	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 2:00 PM	260.00	3.00	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 2:15 PM	253.00	5.00	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 2:30 PM	236.00	3.30	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 2:45 PM	227.00	3.00	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 3:00 PM	206.00	2.90	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 3:15 PM	187.00	3.00	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 3:30 PM	253.00	3.30	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 3:45 PM	206.00	2.80	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 4:00 PM	257.00	3.80	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 4:15 PM	216.00	2.30	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 4:30 PM	213.00	3.60	17.30	18.60	1.30	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 4:45 PM	89.00	2.00	18.60	17.30	0.00	18.60	35.10	17.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/30/13 5:00 PM	86.00	3.00	18.60	17.30	0.00	18.60										

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: 9/11/2013 9:15AM 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:

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) Radio communications stopped updating because the server started windows updates. Server was restarted and everything is operating normally.