



**US Army Corps
of Engineers®**

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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
11/1/14 12:00 AM	7.00	14.70	5.80	12.10	6.30	5.80	8.80	12.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 12:15 AM	11.00	15.70	4.00	10.60	6.60	4.00	8.80	10.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 12:30 AM	5.00	15.10	4.00	10.60	6.60	4.00	8.80	10.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 12:45 AM	4.00	15.60	4.70	10.70	6.00	4.70	8.80	10.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 1:00 AM	21.00	11.00	4.70	10.70	6.00	4.70	8.80	10.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 1:15 AM	18.00	12.10	6.50	10.60	4.10	6.50	8.80	10.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 1:30 AM	13.00	13.90	6.20	11.90	5.70	6.20	8.80	11.90	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 1:45 AM	18.00	11.80	6.70	10.30	3.60	6.70	8.80	10.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 2:00 AM	25.00	10.20	6.70	10.30	3.60	6.70	8.80	10.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 2:15 AM	18.00	11.40	5.30	13.30	8.00	5.30	8.80	13.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 2:30 AM	28.00	13.50	7.60	8.60	1.00	7.60	8.80	8.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 2:45 AM	8.00	13.90	0.00	8.60	0.00	0.00	8.80	8.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 3:00 AM	11.00	13.10	7.20	11.60	4.40	7.20	8.80	11.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 3:15 AM	18.00	10.60	2.60	10.00	7.40	2.60	8.80	10.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 3:30 AM	24.00	11.50	2.30	9.10	6.80	2.30	8.80	9.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 3:45 AM	14.00	10.80	3.00	11.90	8.90	3.00	8.80	11.90	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 4:00 AM	17.00	10.70	3.00	11.90	8.90	3.00	8.80	11.90	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 4:15 AM	14.00	11.20	4.00	10.90	6.90	4.00	8.80	10.90	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 4:30 AM	16.00	11.40	3.00	11.20	8.20	3.00	8.80	11.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 4:45 AM	6.00	11.20	3.70	11.20	7.50	3.70	8.80	11.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 5:00 AM	14.00	10.30	3.00	11.80	8.80	3.00	8.80	11.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 5:15 AM	28.00	10.60	4.70	11.60	6.90	4.70	8.80	11.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 5:30 AM	19.00	11.20	2.40	9.00	6.60	2.40	8.80	9.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 5:45 AM	34.00	10.70	4.30	9.00	4.70	4.30	8.80	9.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 6:00 AM	12.00	10.30	7.10	8.20	1.10	7.10	8.80	8.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 6:15 AM	9.00	12.00	7.10	8.00	0.90	7.10	8.80	8.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 6:30 AM	20.00	12.20	2.60	7.90	5.30	2.60	8.80	7.90	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 6:45 AM	28.00	11.50	2.40	8.40	6.00	2.40	8.80	8.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 7:00 AM	23.00	9.90	2.50	9.10	6.60	2.50	8.80	9.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 7:15 AM	21.00	10.40	2.40	9.10	6.70	2.40	8.80	9.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 7:30 AM	26.00	10.10	2.60	8.10	5.50	2.60	8.80	8.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 7:45 AM	34.00	10.50	2.60	8.20	5.60	2.60	8.80	8.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 8:00 AM	17.00	9.60	2.40	7.20	4.80	2.40	8.80	7.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 8:15 AM	26.00	10.80	3.10	7.60	4.50	3.10	8.80	7.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 8:30 AM	28.00	8.60	3.10	6.60	3.50	3.10	8.80	6.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 8:45 AM	24.00	9.50	3.10	6.60	3.50	3.10	8.80	6.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 9:00 AM	33.00	11.10	2.80	6.60	3.80	2.80	8.80	6.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 9:15 AM	34.00	12.30	3.30	7.60	4.30	3.30	8.80	7.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 9:30 AM	32.00	10.00	2.60	6.80	4.20	2.60	8.80	6.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 9:45 AM	30.00	10.90	4.20	7.10	2.90	4.20	8.80	7.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 10:00 AM	37.00	11.90	4.20	7.10	2.90	4.20	8.80	7.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 10:15 AM	39.00	10.40	2.50	6.30	3.80	2.50	8.80	6.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 10:30 AM	28.00	9.60	2.00	6.80	4.80	2.00	8.80	6.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 10:45 AM	22.00	9.20	0.00	6.80	0.00	0.00	8.80	6.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 11:00 AM	28.00	7.40	2.30	6.60	4.30	2.30	8.80	6.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 11:15 AM	33.00	8.90	3.90	6.30	2.40	3.90	8.80	6.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 11:30 AM	36.00	9.50	2.80	5.60	2.80	2.80	8.80	5.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 11:45 AM	22.00	8.00	2.90	4.90	2.00	2.90	8.80	4.90	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 12:00 PM	36.00	8.30	2.40	4.90	2.50	2.40	8.80	4.90	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 12:15 PM	24.00	7.20	2.90	5.10	2.20	2.90	8.80	5.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 12:30 PM	17.00	8.50	2.80	6.00	3.20	2.80	8.80	6.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 12:45 PM	24.00	8.70	2.80	6.00	3.20	2.80	8.80	6.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 1:00 PM	20.00	9.90	3.40	7.00	3.60	3.40	8.80	7.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 1:15 PM	35.00	6.20	2.80	6.70	3.90	2.80	8.80	6.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 1:30 PM	15.00	8.20	2.20	6.80	4.60	2.20	8.80	6.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 1:45 PM	14.00	7.40	2.20	6.80	4.60	2.20	8.80	6.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 2:00 PM	18.00	8.00	4.30	5.20	0.90	4.30	8.80	5.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 2:15 PM	13.00	8.70	3.90	5.10	1.20	3.90	8.80	5.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 2:30 PM	13.00	7.50	2.60	6.50	3.90	2.60	8.80	6.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 2:45 PM	10.00	7.60	4.80	5.40	0.60	4.80	8.80	5.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 3:00 PM	22.00	6.90	0.00	5.90	0.00	0.00	8.80	5.90	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 3:15 PM	27.00	6.50	3.40	5.00	1.60	3.40	8.80	5.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 3:30 PM	18.00	8.40	3.40	5.00	1.60	3.40	8.80	5.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 3:45 PM	3.00	6.20	1.30	4.80	3.50	1.30	8.80	4.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 4:00 PM	355.00	7.50	2.90	8.80	5.90	0.00	8.80	4.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 4:15 PM	347.00	7.30	2.90	8.80	5.90	0.00	8.80	4.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 4:30 PM	355.00	7.10	2.90	8.80	5.90	3.10	8.80	4.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 4:45 PM	352.00	7.10	2.90	8.80	5.90	2.40	8.80	6.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 5:00 PM	349.00	7.60	2.90	8.80	5.90	1.70	8.80	4.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 5:15 PM	10.00	7.10	1.50	4.40	2.90	1.50	8.80	4.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/1/14 5:30 PM	19.00	4.40	4.80	4.40	0.00	4.80	8.80	4.40	2.90	0.00	0.00	0.00	0					



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
11/2/14 1:15 AM	209.00	1.20	28.20	26.90	0.00	26.90	8.80	28.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 1:30 AM	220.00	1.70	28.40	29.50	1.10	29.50	8.80	28.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 1:45 AM	212.00	0.80	30.60	28.60	0.00	28.60	8.80	30.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 2:00 AM	228.00	1.80	30.60	28.60	0.00	28.60	8.80	30.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 2:15 AM	224.00	1.80	30.60	28.60	0.00	28.60	8.80	30.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 2:30 AM	206.00	1.20	30.60	28.60	0.00	28.60	8.80	30.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 2:45 AM	197.00	0.90	30.60	28.60	0.00	28.60	8.80	30.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 3:00 AM	228.00	1.80	30.60	28.60	0.00	28.60	8.80	30.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 3:15 AM	214.00	1.30	29.50	37.40	7.90	37.40	8.80	29.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 3:30 AM	199.00	1.30	26.60	24.10	0.00	24.10	8.80	26.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 3:45 AM	206.00	1.00	26.30	23.80	0.00	23.80	8.80	26.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 4:00 AM	184.00	1.00	26.90	22.80	0.00	22.80	8.80	26.90	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 4:15 AM	193.00	0.80	27.80	24.40	0.00	24.40	8.80	27.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 4:30 AM	206.00	1.40	27.20	23.40	0.00	23.40	8.80	27.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 4:45 AM	190.00	1.30	26.70	26.90	0.20	26.90	8.80	26.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 5:00 AM	194.00	1.40	26.70	26.90	0.20	26.90	8.80	26.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 5:15 AM	186.00	1.90	29.10	25.70	0.00	25.70	8.80	29.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 5:30 AM	208.00	1.60	27.20	0.00	0.00	0.00	8.80	27.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 5:45 AM	195.00	1.70	26.40	21.80	0.00	21.80	8.80	26.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 6:00 AM	189.00	1.80	24.60	20.70	0.00	20.70	8.80	24.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 6:15 AM	201.00	1.90	24.70	18.20	0.00	18.20	8.80	24.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 6:30 AM	206.00	2.20	24.70	17.10	0.00	17.10	8.80	24.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 6:45 AM	197.00	2.20	20.10	14.70	0.00	14.70	8.80	20.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 7:00 AM	208.00	2.20	19.60	14.40	0.00	14.40	8.80	19.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 7:15 AM	215.00	2.20	19.60	14.40	0.00	14.40	8.80	19.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 7:30 AM	191.00	2.20	17.90	13.00	0.00	13.00	8.80	17.90	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 7:45 AM	185.00	1.70	18.10	13.40	0.00	13.40	8.80	18.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 8:00 AM	193.00	2.50	18.30	12.10	0.00	12.10	8.80	18.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 8:15 AM	174.00	2.30	8.80	2.90	0.00	11.80	8.80	17.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 8:30 AM	195.00	3.00	14.70	11.50	0.00	11.50	8.80	14.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 8:45 AM	207.00	3.40	14.70	11.10	0.00	11.10	8.80	14.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 9:00 AM	207.00	3.70	12.70	9.40	0.00	9.40	8.80	12.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 9:15 AM	197.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 9:30 AM	187.00	3.50	10.00	7.40	0.00	7.40	8.80	10.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 9:45 AM	191.00	4.70	9.20	7.40	0.00	7.40	8.80	9.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 10:00 AM	182.00	4.70	9.00	8.60	0.00	8.60	8.80	9.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 10:15 AM	189.00	5.90	8.20	8.10	0.00	8.10	8.80	8.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 10:30 AM	193.00	4.80	7.70	9.10	1.40	9.10	8.80	7.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 10:45 AM	191.00	6.60	8.50	8.80	0.30	8.80	8.80	8.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 11:00 AM	188.00	4.60	6.70	8.40	1.70	8.40	8.80	6.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 11:15 AM	198.00	6.40	6.20	8.80	2.60	8.80	8.80	6.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 11:30 AM	195.00	5.40	6.00	9.00	3.00	9.00	8.80	6.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 11:45 AM	185.00	5.80	6.00	9.30	3.30	9.30	8.80	6.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 12:00 PM	195.00	4.30	6.20	8.50	2.30	8.50	8.80	6.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 12:15 PM	198.00	4.50	6.00	7.70	1.70	7.70	8.80	6.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 12:30 PM	187.00	5.70	6.00	7.40	1.40	7.40	8.80	6.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 12:45 PM	192.00	4.90	5.80	6.50	0.70	6.50	8.80	5.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 1:00 PM	190.00	5.90	6.00	7.80	1.80	7.80	8.80	6.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 1:15 PM	207.00	5.50	5.40	6.20	0.80	6.20	8.80	5.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 1:30 PM	186.00	5.10	5.40	6.80	1.40	6.80	8.80	5.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 1:45 PM	212.00	6.00	5.30	7.40	2.10	7.40	8.80	5.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 2:00 PM	189.00	6.00	5.20	7.40	2.20	7.40	8.80	5.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 2:15 PM	192.00	5.20	5.80	9.00	3.20	9.00	8.80	5.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 2:30 PM	187.00	4.80	5.00	8.20	3.20	8.20	8.80	5.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 2:45 PM	212.00	7.10	5.00	8.50	3.50	8.50	8.80	5.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 3:00 PM	190.00	6.90	5.00	8.50	3.50	8.50	8.80	5.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 3:15 PM	198.00	5.00	5.60	9.40	3.80	9.40	8.80	5.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 3:30 PM	179.00	4.90	8.80	2.90	0.00	9.40	8.80	5.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 3:45 PM	189.00	6.20	7.30	11.20	3.90	11.20	8.80	7.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 4:00 PM	189.00	6.10	7.30	11.40	4.10	11.40	8.80	7.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 4:15 PM	184.00	6.20	7.80	10.80	3.00	10.80	8.80	7.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 4:30 PM	197.00	6.20	7.80	11.90	4.10	11.90	8.80	7.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 4:45 PM	198.00	6.50	8.00	10.90	2.90	10.90	8.80	8.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 5:00 PM	193.00	6.60	8.40	11.50	3.10	11.50	8.80	8.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 5:15 PM	174.00	4.90	8.80	2.90	0.00	11.50	8.80	8.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 5:30 PM	177.00	5.90	8.80	2.90	0.00	9.50	8.80	7.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 5:45 PM	174.00	5.70	8.80	2.90	0.00	9.10	8.80	7.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 6:00 PM	180.00	4.10	8.20	10.60	2.40	10.60	8.80	8.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 6:15 PM	169.00	4.20	8.80	2.90	0.00	9.50	8.80	8.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 6:30 PM	180.00	4.70	9.30	9.70	0.40	9.70	8.80	9.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 6:45 PM	184.00	4.40	10.40	11.60	1.20	11.60	8.80	10.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 7:00 PM	182.00	4.80	11.60	10.80	0.00	10.80	8.80	11.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 7:15 PM	176.00	5.80	8.80	2.90	0.00	10.60	8.80	11.90	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/2/14 7:30 PM	175.00	4.70	8.80	2.90	0.00	9.90	8.80	13.40	2.90	0.00	0.00	0.00	0.00			



US Army Corps
of Engineers®

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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
11/3/14 2:30 AM	207.00	5.30	11.40	10.30	0.00	10.30	8.80	11.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 2:45 AM	201.00	7.30	11.30	10.30	0.00	10.30	8.80	11.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 3:00 AM	197.00	5.50	11.30	10.10	0.00	10.10	8.80	11.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 3:15 AM	199.00	5.70	11.60	10.10	0.00	10.10	8.80	11.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 3:30 AM	202.00	5.80	11.00	10.00	0.00	10.00	8.80	11.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 3:45 AM	202.00	7.00	11.50	9.40	0.00	9.40	8.80	11.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 4:00 AM	195.00	6.50	11.20	9.10	0.00	9.10	8.80	11.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 4:15 AM	194.00	4.70	11.20	9.10	0.00	9.10	8.80	11.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 4:30 AM	200.00	6.40	11.00	9.40	0.00	9.40	8.80	11.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 4:45 AM	207.00	6.80	11.10	9.20	0.00	9.20	8.80	11.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 5:00 AM	202.00	5.30	11.30	9.10	0.00	9.10	8.80	11.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 5:15 AM	196.00	8.30	11.60	9.00	0.00	9.00	8.80	11.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 5:30 AM	200.00	6.60	11.60	7.90	0.00	7.90	8.80	11.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 5:45 AM	202.00	5.40	11.50	8.30	0.00	8.30	8.80	11.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 6:00 AM	204.00	5.40	11.70	7.80	0.00	7.80	8.80	11.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 6:15 AM	194.00	4.80	11.80	8.10	0.00	8.10	8.80	11.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 6:30 AM	201.00	5.40	11.80	0.00	0.00	0.00	8.80	11.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 6:45 AM	196.00	5.50	11.20	7.70	0.00	7.70	8.80	11.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 7:00 AM	204.00	5.40	11.20	7.70	0.00	7.70	8.80	11.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 7:15 AM	202.00	6.30	11.30	8.10	0.00	8.10	8.80	11.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 7:30 AM	202.00	4.60	11.40	7.90	0.00	7.90	8.80	11.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 7:45 AM	193.00	4.80	11.80	7.80	0.00	7.80	8.80	11.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 8:00 AM	201.00	7.10	11.30	8.40	0.00	8.40	8.80	11.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 8:15 AM	198.00	4.30	11.70	8.60	0.00	8.60	8.80	11.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 8:30 AM	204.00	6.00	12.40	8.30	0.00	8.30	8.80	12.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 8:45 AM	197.00	5.80	12.40	8.00	0.00	8.00	8.80	12.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 9:00 AM	210.00	6.00	12.50	7.90	0.00	7.90	8.80	12.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 9:15 AM	206.00	5.30	12.20	8.10	0.00	8.10	8.80	12.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 9:30 AM	206.00	6.80	11.80	8.40	0.00	8.40	8.80	11.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 9:45 AM	216.00	6.40	11.40	8.30	0.00	8.30	8.80	11.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 10:00 AM	204.00	6.70	11.40	8.50	0.00	8.50	8.80	11.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 10:15 AM	214.00	6.20	11.50	8.80	0.00	8.80	8.80	11.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 10:30 AM	207.00	6.00	11.40	9.20	0.00	9.20	8.80	11.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 10:45 AM	218.00	7.80	11.70	9.50	0.00	9.50	8.80	11.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 11:00 AM	216.00	5.30	11.70	9.20	0.00	9.20	8.80	11.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 11:15 AM	207.00	6.40	12.50	10.70	0.00	10.70	8.80	12.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 11:30 AM	213.00	6.40	12.40	0.00	0.00	0.00	8.80	12.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 11:45 AM	219.00	7.50	12.40	9.20	0.00	9.20	8.80	12.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 12:00 PM	208.00	9.00	12.70	11.00	0.00	11.00	8.80	12.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 12:15 PM	214.00	7.30	12.70	11.00	0.00	11.00	8.80	12.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 12:30 PM	218.00	7.80	13.30	10.90	0.00	10.90	8.80	13.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 12:45 PM	216.00	7.10	13.20	11.10	0.00	11.10	8.80	13.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 1:00 PM	215.00	6.40	14.30	11.50	0.00	11.50	8.80	14.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 1:15 PM	214.00	6.10	14.40	12.20	0.00	12.20	8.80	14.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 1:30 PM	214.00	7.20	15.20	12.50	0.00	12.50	8.80	15.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 1:45 PM	209.00	7.50	16.50	13.80	0.00	13.80	8.80	16.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 2:00 PM	213.00	5.80	16.50	13.50	0.00	13.50	8.80	16.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 2:15 PM	201.00	8.00	17.00	14.00	0.00	14.00	8.80	17.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 2:30 PM	220.00	6.30	17.50	14.60	0.00	14.60	8.80	17.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 2:45 PM	223.00	7.50	17.90	14.40	0.00	14.40	8.80	17.90	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 3:00 PM	221.00	6.70	17.90	15.60	0.00	15.60	8.80	17.90	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 3:15 PM	203.00	5.10	18.00	15.10	0.00	15.10	8.80	18.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 3:30 PM	198.00	7.40	19.40	16.50	0.00	16.50	8.80	19.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 3:45 PM	191.00	8.20	19.50	16.00	0.00	16.00	8.80	19.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 4:00 PM	201.00	6.20	19.60	16.70	0.00	16.70	8.80	19.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 4:15 PM	207.00	6.30	20.60	18.40	0.00	18.40	8.80	20.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 4:30 PM	205.00	7.10	20.60	18.40	0.00	18.40	8.80	20.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 4:45 PM	198.00	5.10	21.90	19.30	0.00	19.30	8.80	21.90	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 5:00 PM	200.00	6.70	23.20	20.90	0.00	20.90	8.80	23.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 5:15 PM	193.00	4.20	22.20	20.70	0.00	20.70	8.80	22.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 5:30 PM	193.00	5.40	25.00	22.30	0.00	22.30	8.80	25.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 5:45 PM	187.00	4.80	27.70	22.30	0.00	22.30	8.80	27.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 6:00 PM	201.00	5.10	25.70	23.10	0.00	23.10	8.80	25.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 6:15 PM	202.00	6.30	24.50	22.50	0.00	22.50	8.80	24.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 6:30 PM	194.00	5.20	23.60	21.70	0.00	21.70	8.80	23.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 6:45 PM	188.00	6.10	21.70	21.30	0.00	21.30	8.80	21.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 7:00 PM	198.00	5.00	22.60	19.20	0.00	19.20	8.80	22.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 7:15 PM	203.00	6.00	20.70	17.40	0.00	17.40	8.80	20.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 7:30 PM	192.00	5.90	20.20	16.90	0.00	16.90	8.80	20.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/3/14 7:45 PM	200.00	6.60	21.40	17.30	0.00	17.30	8.80	21.40	2							



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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
11/4/14 3:45 AM	212.00	7.80	29.60	26.10	0.00	26.10	8.80	29.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 4:00 AM	205.00	7.20	29.10	27.10	0.00	27.10	8.80	29.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 4:15 AM	214.00	6.10	29.10	26.00	0.00	26.00	8.80	29.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 4:30 AM	215.00	6.60	28.80	25.60	0.00	25.60	8.80	28.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 4:45 AM	213.00	9.60	30.70	28.20	0.00	28.20	8.80	30.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 5:00 AM	212.00	6.90	34.40	26.10	0.00	26.10	8.80	34.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 5:15 AM	212.00	9.00	38.10	25.30	0.00	25.30	8.80	38.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 5:30 AM	203.00	6.90	39.80	25.40	0.00	25.40	8.80	39.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 5:45 AM	214.00	6.30	44.90	26.30	0.00	26.30	8.80	44.90	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 6:00 AM	199.00	7.60	45.80	0.00	0.00	0.00	8.80	45.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 6:15 AM	200.00	5.70	42.70	23.30	0.00	23.30	8.80	42.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 6:30 AM	200.00	6.20	42.80	23.30	0.00	23.30	8.80	42.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 6:45 AM	197.00	5.60	42.80	22.10	0.00	22.10	8.80	42.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 7:00 AM	198.00	7.80	42.70	21.70	0.00	21.70	8.80	42.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 7:15 AM	201.00	8.90	42.30	21.40	0.00	21.40	8.80	42.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 7:30 AM	204.00	5.60	41.80	21.10	0.00	21.10	8.80	41.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 7:45 AM	197.00	6.00	41.00	21.70	0.00	21.70	8.80	41.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 8:00 AM	204.00	8.20	40.20	20.90	0.00	20.90	8.80	40.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 8:15 AM	210.00	9.00	39.50	21.00	0.00	21.00	8.80	39.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 8:30 AM	212.00	5.50	40.10	20.80	0.00	20.80	8.80	40.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 8:45 AM	209.00	5.30	40.40	20.60	0.00	20.60	8.80	40.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 9:00 AM	200.00	7.40	40.40	21.00	0.00	21.00	8.80	40.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 9:15 AM	208.00	6.00	40.80	21.30	0.00	21.30	8.80	40.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 9:30 AM	197.00	7.50	41.20	21.30	0.00	21.30	8.80	41.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 9:45 AM	211.00	5.80	40.80	21.30	0.00	21.30	8.80	40.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 10:00 AM	212.00	8.70	41.30	21.30	0.00	21.30	8.80	41.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 10:15 AM	216.00	6.50	40.50	22.10	0.00	22.10	8.80	40.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 10:30 AM	208.00	6.60	40.50	21.50	0.00	21.50	8.80	40.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 10:45 AM	215.00	6.10	41.20	20.60	0.00	20.60	8.80	41.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 11:00 AM	237.00	3.00	41.90	20.20	0.00	20.20	8.80	41.90	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 11:15 AM	262.00	7.10	42.10	21.20	0.00	21.20	8.80	42.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 11:30 AM	234.00	6.50	38.80	21.60	0.00	21.60	8.80	38.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 11:45 AM	256.00	7.10	22.30	19.20	0.00	19.20	8.80	22.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 12:00 PM	252.00	4.40	18.00	16.60	0.00	16.60	8.80	18.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 12:15 PM	242.00	6.40	18.00	16.60	0.00	16.60	8.80	18.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 12:30 PM	249.00	5.60	13.60	13.50	0.00	13.50	8.80	13.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 12:45 PM	242.00	8.60	13.60	12.70	0.00	12.70	8.80	13.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 1:00 PM	260.00	6.30	14.60	14.70	0.10	14.70	8.80	14.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 1:15 PM	253.00	8.60	14.50	13.80	0.00	13.80	8.80	14.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 1:30 PM	253.00	6.70	14.50	14.10	0.00	14.10	8.80	14.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 1:45 PM	251.00	6.70	14.10	0.00	0.00	0.00	8.80	14.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 2:00 PM	243.00	7.70	14.00	12.50	0.00	12.50	8.80	14.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 2:15 PM	248.00	6.10	13.60	14.10	0.50	14.10	8.80	13.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 2:30 PM	252.00	9.30	12.60	16.20	3.60	16.20	8.80	12.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 2:45 PM	267.00	8.30	12.00	12.70	0.70	12.70	8.80	12.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 3:00 PM	259.00	7.00	12.00	11.70	0.00	11.70	8.80	12.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 3:15 PM	257.00	7.00	12.40	13.00	0.60	13.00	8.80	12.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 3:30 PM	255.00	7.80	12.70	12.90	0.20	12.90	8.80	12.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 3:45 PM	276.00	7.50	2.90	8.80	5.90	16.40	8.80	13.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 4:00 PM	247.00	5.30	12.00	11.90	0.00	11.90	8.80	12.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 4:15 PM	262.00	4.90	12.00	11.90	0.00	11.90	8.80	12.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 4:30 PM	260.00	7.40	11.90	14.80	2.90	14.80	8.80	11.90	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 4:45 PM	259.00	3.80	12.20	13.80	1.60	13.80	8.80	12.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 5:00 PM	263.00	5.10	12.50	14.20	1.70	14.20	8.80	12.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 5:15 PM	254.00	5.50	12.30	14.20	1.90	14.20	8.80	12.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 5:30 PM	243.00	5.00	12.00	13.00	1.00	13.00	8.80	12.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 5:45 PM	247.00	4.50	12.20	11.70	0.00	11.70	8.80	12.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 6:00 PM	255.00	5.50	12.70	12.10	0.00	12.10	8.80	12.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 6:15 PM	249.00	5.00	11.90	12.30	0.40	12.30	8.80	11.90	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 6:30 PM	242.00	5.70	12.80	12.20	0.00	12.20	8.80	12.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 6:45 PM	244.00	4.90	12.60	12.20	0.00	12.20	8.80	12.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 7:00 PM	246.00	5.20	13.00	10.90	0.00	10.90	8.80	13.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 7:15 PM	254.00	5.50	13.00	11.00	0.00	11.00	8.80	13.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 7:30 PM	247.00	5.80	13.30	11.00	0.00	11.00	8.80	13.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 7:45 PM	250.00	4.00	13.80	11.40	0.00	11.40	8.80	13.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 8:00 PM	252.00	4.90	13.90	11.70	0.00	11.70	8.80	13.90	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 8:15 PM	250.00	3.50	13.80	12.20	0.00	12.20	8.80	13.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 8:30 PM	237.00	3.50	14.20	12.80	0.00	12.80	8.80	14.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 8:45 PM	236.00	4.70	15.40	13.70	0.00	13.70	8.80	15.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/14 9:00 PM	240.00	4.90	1													



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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
11/6/14 6:15 AM	280.00	4.20	7.00	15.50	8.50	10.90	15.50	13.80	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 6:30 AM	287.00	5.50	7.40	15.60	8.20	11.90	15.60	13.50	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 6:45 AM	286.00	4.70	9.50	16.60	7.10	12.80	16.60	14.40	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 7:00 AM	288.00	5.00	10.80	17.40	6.60	15.80	17.40	14.20	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 7:15 AM	285.00	4.60	15.00	18.30	3.30	16.50	18.30	14.40	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 7:30 AM	285.00	5.20	13.30	20.10	6.80	17.70	20.10	15.50	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 7:45 AM	313.00	5.60	16.30	22.40	6.10	20.60	22.40	17.30	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 8:00 AM	306.00	5.00	17.90	24.70	6.80	22.10	24.70	17.90	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 8:15 AM	296.00	6.90	18.40	24.40	6.00	21.10	24.40	18.50	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 8:30 AM	314.00	5.40	18.20	25.40	7.20	22.30	25.40	19.60	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 8:45 AM	315.00	5.50	15.80	25.30	9.50	22.90	25.30	20.10	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 9:00 AM	308.00	6.80	17.10	27.90	10.80	25.40	27.90	21.90	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 9:15 AM	318.00	7.60	17.50	32.60	15.10	0.00	32.60	24.40	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 9:30 AM	310.00	7.30	21.00	33.80	12.80	27.10	33.80	25.90	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 9:45 AM	311.00	6.90	14.90	29.30	14.40	0.00	29.30	23.80	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 10:00 AM	300.00	7.70	21.80	29.60	7.80	28.40	29.60	23.30	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 10:15 AM	306.00	8.10	19.20	16.80	0.00	0.00	16.80	20.50	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 10:30 AM	309.00	8.70	13.60	22.30	8.70	14.70	22.30	21.40	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 10:45 AM	334.00	8.40	8.10	8.10	0.00	0.00	8.10	13.70	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 11:00 AM	332.00	7.50	5.70	5.40	0.00	8.00	5.40	10.40	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 11:15 AM	328.00	9.00	6.80	5.10	0.00	8.20	5.10	10.80	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 11:30 AM	329.00	6.50	5.50	4.90	0.00	6.20	4.90	10.40	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 11:45 AM	334.00	7.10	6.00	4.60	0.00	6.40	4.60	11.40	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 12:00 PM	334.00	7.10	5.50	5.30	0.00	5.50	5.30	10.00	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 12:15 PM	324.00	9.10	6.00	4.80	0.00	5.10	4.80	9.40	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 12:30 PM	329.00	6.40	5.20	4.00	0.00	0.00	4.00	10.00	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 12:45 PM	330.00	7.90	5.20	4.30	0.00	0.00	4.30	10.10	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 1:00 PM	349.00	10.40	5.70	6.20	0.50	5.80	6.20	10.90	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 1:15 PM	331.00	9.10	6.10	6.20	0.10	5.40	6.20	10.00	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 1:30 PM	338.00	6.70	5.50	5.60	0.10	6.40	5.60	9.60	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 1:45 PM	345.00	7.70	6.30	5.80	0.00	5.90	5.80	11.20	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 2:00 PM	353.00	12.60	8.10	9.40	1.30	7.40	9.40	9.90	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 2:15 PM	324.00	7.60	6.50	6.60	0.10	6.10	6.60	9.40	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 2:30 PM	334.00	9.70	7.00	6.80	0.00	6.40	6.80	10.70	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 2:45 PM	342.00	10.00	7.10	9.10	2.00	6.70	9.10	10.40	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 3:00 PM	329.00	6.90	7.30	7.60	0.30	8.30	7.60	9.50	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 3:15 PM	324.00	9.10	6.70	6.50	0.00	5.80	6.50	9.60	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 3:30 PM	336.00	6.00	8.20	6.50	0.00	6.90	6.50	10.30	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 3:45 PM	337.00	8.00	6.60	8.00	1.40	7.50	8.00	10.40	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 4:00 PM	338.00	7.30	6.40	5.50	0.00	7.10	5.50	9.20	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 4:15 PM	333.00	8.50	7.00	7.30	0.30	5.80	7.30	10.40	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 4:30 PM	337.00	8.20	6.80	6.30	0.00	6.70	6.30	10.20	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 4:45 PM	330.00	7.20	7.20	6.00	0.00	6.50	6.00	10.00	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 5:00 PM	332.00	8.90	7.40	5.60	0.00	7.90	5.60	12.80	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 5:15 PM	334.00	8.50	7.00	6.00	0.00	7.40	6.00	11.50	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 5:30 PM	323.00	8.80	8.00	5.80	0.00	7.40	5.80	11.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 5:45 PM	328.00	7.60	7.20	8.30	1.10	7.00	8.30	14.00	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 6:00 PM	335.00	8.70	6.90	5.90	0.00	6.80	5.90	10.80	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 6:15 PM	332.00	6.10	7.60	5.50	0.00	0.00	5.50	9.50	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 6:30 PM	337.00	7.80	6.60	7.70	1.10	5.60	7.70	9.60	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 6:45 PM	325.00	9.90	6.70	5.30	0.00	5.60	5.30	9.30	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 7:00 PM	342.00	5.50	6.90	4.70	0.00	5.30	4.70	8.60	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 7:15 PM	340.00	6.40	7.00	4.80	0.00	5.90	4.80	8.60	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 7:30 PM	343.00	6.30	8.10	5.40	0.00	5.60	5.40	8.60	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 7:45 PM	347.00	8.30	8.30	5.20	0.00	5.10	5.20	8.70	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 8:00 PM	344.00	6.10	8.10	5.20	0.00	0.00	5.20	8.70	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 8:15 PM	354.00	9.10	8.60	5.70	0.00	4.40	5.70	8.90	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 8:30 PM	348.00	8.80	8.50	6.40	0.00	4.90	6.40	9.10	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 8:45 PM	351.00	11.70	8.90	6.30	0.00	5.20	6.30	9.30	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 9:00 PM	339.00	6.20	8.70	5.00	0.00	4.50	5.00	9.10	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 9:15 PM	336.00	5.30	7.00	4.30	0.00	3.70	4.30	7.90	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 9:30 PM	349.00	6.40	6.70	4.20	0.00	3.60	4.20	7.60	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 9:45 PM	326.00	6.50	6.40	3.70	0.00	3.50	3.70	7.20	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 10:00 PM	349.00	6.00	6.30	3.60	0.00	4.00	3.60	7.20	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 10:15 PM	344.00	6.60	6.40	4.00	0.00	4.90	4.00	7.30	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 10:30 PM	329.00	6.50	6.80	4.00	0.00	5.50	4.00	7.70	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 10:45 PM	325.00	7.50	6.50	4.60	0.00	6.60	4.60	7.30	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 11:00 PM	339.00	4.30	6.40	4.30	0.00	6.50	4.30	7.40	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 11:15 PM	330.00	4.90	6.30	4.30	0.00	6.30	4.30	7.30	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/6/14 11:30 PM	323.00	4.50	6.30	4.70	0.00	5.30	4.70	7.40	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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US Army Corps
of Engineers®

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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
11/8/14 8:45 AM	313.00	5.80	5.40	19.50	14.10	12.60	19.50	18.60	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 9:00 AM	316.00	6.80	4.90	17.50	12.60	11.80	17.50	17.90	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 9:15 AM	331.00	5.40	4.60	16.00	11.40	10.90	16.00	16.20	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 9:30 AM	334.00	4.30	5.30	15.10	9.80	10.80	15.10	15.00	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 9:45 AM	320.00	4.00	5.70	15.50	9.80	10.60	15.50	16.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 10:00 AM	310.00	7.50	6.50	13.70	7.20	11.00	13.70	14.80	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 10:15 AM	317.00	7.50	5.40	11.20	5.80	7.60	11.20	12.70	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 10:30 AM	328.00	5.40	5.10	9.20	4.10	7.40	9.20	12.60	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 10:45 AM	325.00	6.60	4.20	5.60	1.40	0.00	5.60	9.40	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 11:00 AM	339.00	6.70	3.70	3.50	0.00	4.10	3.50	8.20	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 11:15 AM	329.00	6.40	3.10	2.00	0.00	3.10	2.00	6.90	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 11:30 AM	336.00	5.10	3.10	1.50	0.00	3.50	1.50	6.40	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 11:45 AM	332.00	6.00	3.00	1.50	0.00	2.90	1.50	6.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 12:00 PM	314.00	4.40	2.70	1.60	0.00	2.70	1.60	5.80	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 12:15 PM	330.00	7.20	3.00	1.70	0.00	3.30	1.70	5.70	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 12:30 PM	321.00	5.60	3.00	2.00	0.00	3.00	2.00	5.90	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 12:45 PM	309.00	4.80	2.90	1.90	0.00	3.10	1.90	5.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 1:00 PM	313.00	7.70	2.90	2.10	0.00	3.90	2.10	6.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 1:15 PM	324.00	7.30	3.10	2.00	0.00	4.20	2.00	8.40	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 1:30 PM	314.00	5.60	3.10	1.70	0.00	3.00	1.70	12.10	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 1:45 PM	319.00	5.00	3.30	2.50	0.00	4.00	2.50	5.80	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 2:00 PM	313.00	7.10	3.50	1.70	0.00	4.30	1.70	6.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 2:15 PM	314.00	6.30	4.30	2.40	0.00	4.60	2.40	5.70	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 2:30 PM	299.00	6.60	3.60	2.20	0.00	4.70	2.20	6.10	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 2:45 PM	309.00	5.70	4.40	2.00	0.00	4.60	2.00	5.40	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 3:00 PM	296.00	5.80	3.90	2.60	0.00	5.30	2.60	6.00	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 3:15 PM	313.00	5.50	3.50	2.00	0.00	3.60	2.00	5.50	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 3:30 PM	316.00	6.00	3.80	2.10	0.00	4.00	2.10	7.90	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 3:45 PM	300.00	4.20	4.20	2.20	0.00	4.10	2.20	5.80	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 4:00 PM	306.00	5.90	3.60	2.40	0.00	3.80	2.40	5.50	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 4:15 PM	314.00	5.70	3.90	1.90	0.00	3.60	1.90	5.20	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 4:30 PM	311.00	4.90	3.90	2.50	0.00	4.90	2.50	5.20	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 4:45 PM	299.00	2.90	3.40	2.50	0.00	5.50	2.50	5.00	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 5:00 PM	301.00	4.40	3.60	2.20	0.00	5.70	2.20	5.20	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 5:15 PM	282.00	4.40	3.80	2.50	0.00	5.60	2.50	5.00	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 5:30 PM	270.00	2.50	5.20	2.80	0.00	6.50	2.80	5.40	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 5:45 PM	270.00	2.70	6.10	3.30	0.00	0.00	3.30	5.40	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 6:00 PM	263.00	2.20	5.70	5.60	0.00	5.60	3.10	5.70	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 6:15 PM	248.00	2.00	5.90	4.40	0.00	4.40	5.40	5.90	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 6:30 PM	228.00	1.70	6.80	5.50	0.00	5.50	5.80	6.80	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 6:45 PM	230.00	1.50	9.50	5.80	0.00	5.80	13.00	9.50	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 7:00 PM	227.00	1.50	9.70	6.80	0.00	6.80	9.90	9.70	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 7:15 PM	241.00	2.50	9.50	6.10	0.00	6.10	9.60	9.50	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 7:30 PM	240.00	2.30	9.30	5.80	0.00	5.80	9.70	9.30	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 7:45 PM	250.00	2.70	9.60	6.20	0.00	6.20	10.20	9.60	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 8:00 PM	248.00	2.90	9.70	7.00	0.00	7.00	9.90	9.70	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 8:15 PM	256.00	2.80	10.10	8.60	0.00	8.60	10.60	10.10	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 8:30 PM	253.00	2.10	10.30	9.80	0.00	9.80	11.20	10.30	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 8:45 PM	258.00	2.50	10.60	10.90	0.30	10.90	12.50	10.60	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 9:00 PM	257.00	3.00	11.00	9.60	0.00	9.60	13.20	11.00	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 9:15 PM	280.00	3.90	8.90	12.70	3.80	10.00	12.70	11.10	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 9:30 PM	295.00	4.50	8.00	11.90	3.90	0.00	11.90	10.50	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 9:45 PM	300.00	4.20	8.00	10.80	2.80	10.40	10.80	10.40	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 10:00 PM	309.00	5.00	7.40	9.00	1.60	9.00	9.00	9.50	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 10:15 PM	298.00	5.30	5.60	6.20	0.60	7.50	6.20	8.20	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 10:30 PM	307.00	6.00	5.70	6.00	0.30	9.20	6.00	8.30	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 10:45 PM	289.00	4.80	5.90	6.80	0.90	9.20	6.80	8.50	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 11:00 PM	292.00	3.90	7.50	6.70	0.00	10.00	6.70	8.40	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 11:15 PM	286.00	3.90	6.70	7.30	0.60	10.40	7.30	8.50	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 11:30 PM	283.00	2.70	6.60	7.20	0.60	11.00	7.20	8.60	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/14 11:45 PM	273.00	2.70	6.60	6.80	0.20	9.60	6.80	8.70	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/9/14 12:00 AM	274.00	3.00	7.00	8.50	1.50	9.30	8.50	8.80	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/9/14 12:15 AM	279.00	3.20	7.80	7.70	0.00	8.60	7.70	8.60	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/9/14 12:30 AM	282.00	2.60	7.20	7.70	0.50	8.60	7.70	8.70	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/9/14 12:45 AM	270.00	2.20	7.20	8.70	1.50	7.50	8.70	8.80	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/9/14 1:00 AM	266.00	2.10	8.70	0.00	0.00	0.00	9.20	8.70	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/9/14 1:15 AM	254.00	2.20	8.60	6.90	0.00	6.90	9.10	8.60	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/9/14 1:30 AM	247.00	2.20	9.10	7.20	0.00	7.20	10.80	9.10	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/9/14 1:45 AM	254.00	2.60	9.60	0.00	0.00	0.00	12.00	9.60	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/9/14 2:00 AM	249.00	2.20	0.00	10.00	0.00	10.00	12.00	0.00	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/9/14 2:15 AM	236.00	1.60	10.30	14.70	4.4											



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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
11/9/14 10:00 AM	207.00	4.30	11.00	0.00	0.00	0.00	9.60	11.00	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 10:15 AM	200.00	5.30	11.40	9.60	0.00	9.60	9.50	11.40	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 10:30 AM	220.00	7.60	11.30	9.30	0.00	9.30	9.10	11.30	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 10:45 AM	200.00	6.00	11.10	10.00	0.00	10.00	8.10	11.10	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 11:00 AM	204.00	5.80	11.20	10.70	0.00	10.70	8.80	11.20	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 11:15 AM	217.00	6.80	11.40	11.00	0.00	11.00	10.20	11.40	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 11:30 AM	214.00	9.10	11.50	10.70	0.00	10.70	9.70	11.50	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 11:45 AM	189.00	6.90	11.70	11.20	0.00	11.20	10.10	11.70	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 12:00 PM	196.00	6.30	11.30	0.00	0.00	0.00	10.10	11.30	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 12:15 PM	202.00	6.70	11.50	10.10	0.00	10.10	9.40	11.50	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 12:30 PM	212.00	6.90	11.60	10.60	0.00	10.60	9.10	11.60	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 12:45 PM	207.00	6.50	13.20	13.00	0.00	13.00	11.50	13.20	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 1:00 PM	200.00	9.70	13.90	14.90	1.00	14.90	15.10	13.90	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 1:15 PM	199.00	10.20	15.50	16.20	0.70	16.20	18.70	15.50	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 1:30 PM	203.00	8.50	16.50	20.10	3.60	20.10	18.30	16.50	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 1:45 PM	200.00	10.70	17.00	21.80	4.80	21.80	21.30	17.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 2:00 PM	209.00	9.20	16.30	16.40	0.10	16.40	17.60	16.30	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 2:15 PM	206.00	9.00	13.80	13.70	0.00	13.70	13.50	13.80	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 2:30 PM	218.00	9.00	14.10	12.90	0.00	12.90	13.80	14.10	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 2:45 PM	219.00	9.40	14.60	12.80	0.00	12.80	14.50	14.60	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 3:00 PM	204.00	8.80	15.50	12.70	0.00	12.70	15.10	15.50	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 3:15 PM	203.00	8.70	15.40	12.40	0.00	12.40	14.20	15.40	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 3:30 PM	212.00	8.70	16.10	13.50	0.00	13.50	15.10	16.10	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 3:45 PM	216.00	8.10	16.40	13.60	0.00	13.60	16.00	16.40	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 4:00 PM	211.00	7.10	16.30	13.60	0.00	13.60	16.10	16.30	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 4:15 PM	207.00	4.90	15.70	13.40	0.00	13.40	16.60	15.70	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 4:30 PM	211.00	7.00	16.50	0.00	0.00	0.00	16.10	16.50	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 4:45 PM	209.00	5.10	16.30	13.10	0.00	13.10	15.90	16.30	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 5:00 PM	203.00	5.50	17.00	13.30	0.00	13.30	15.40	17.00	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 5:15 PM	202.00	6.00	16.90	12.70	0.00	12.70	14.90	16.90	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 5:30 PM	211.00	4.40	17.00	12.90	0.00	12.90	16.20	17.00	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 5:45 PM	195.00	3.60	17.40	13.80	0.00	13.80	16.70	17.40	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 6:00 PM	199.00	3.10	17.90	15.10	0.00	15.10	17.80	17.90	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 6:15 PM	202.00	3.80	18.20	15.20	0.00	15.20	18.90	18.20	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 6:30 PM	205.00	3.50	18.90	15.90	0.00	15.90	21.10	18.90	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 6:45 PM	204.00	3.30	19.90	16.40	0.00	16.40	22.20	19.90	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 7:00 PM	204.00	4.10	20.10	17.10	0.00	17.10	21.60	20.10	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 7:15 PM	197.00	3.80	20.10	17.20	0.00	17.20	24.00	20.10	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 7:30 PM	204.00	3.60	19.90	17.40	0.00	17.40	22.90	19.90	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 7:45 PM	207.00	3.80	20.80	17.40	0.00	17.40	24.20	20.80	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 8:00 PM	189.00	3.30	21.50	19.40	0.00	19.40	28.20	21.50	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 8:15 PM	204.00	3.30	21.70	18.90	0.00	18.90	26.50	21.70	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 8:30 PM	190.00	5.10	21.80	20.20	0.00	20.20	26.10	21.80	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 8:45 PM	187.00	4.70	21.60	20.10	0.00	20.10	25.90	21.60	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 9:00 PM	200.00	4.40	21.10	19.00	0.00	19.00	24.30	21.10	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 9:15 PM	0.00	0.00	0.00	0.00	0.00	0.00	18.30	23.70	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 9:30 PM	0.00	0.00	0.00	0.00	0.00	0.00	17.80	22.00	20.50	14.80	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 9:45 PM	197.00	4.70	19.30	15.80	0.00	15.80	20.70	19.30	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 10:00 PM	206.00	4.90	18.70	15.10	0.00	15.10	18.40	18.70	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 10:15 PM	199.00	4.80	18.60	14.00	0.00	14.00	17.30	18.60	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 10:30 PM	199.00	5.10	18.00	0.00	0.00	0.00	17.20	18.00	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 10:45 PM	204.00	3.80	17.50	14.10	0.00	14.10	16.70	17.50	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 11:00 PM	210.00	4.40	17.80	14.50	0.00	14.50	16.60	17.80	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 11:15 PM	200.00	5.10	17.30	14.30	0.00	14.30	17.20	17.30	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 11:30 PM	196.00	5.30	17.50	14.30	0.00	14.30	16.30	17.50	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/9/14 11:45 PM	200.00	3.60	17.40	14.00	0.00	14.00	16.10	17.40	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/10/14 12:00 AM	195.00	4.10	17.30	13.90	0.00	13.90	15.20	17.30	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/10/14 12:15 AM	199.00	3.20	16.80	13.40	0.00	13.40	15.00	16.80	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/10/14 12:30 AM	206.00	3.20	16.80	13.00	0.00	13.00	15.00	16.80	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/10/14 12:45 AM	196.00	3.10	16.90	14.00	0.00	14.00	14.70	16.90	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/10/14 1:00 AM	194.00	3.00	17.20	13.40	0.00	13.40	14.90	17.20	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/10/14 1:15 AM	198.00	2.10	17.50	13.20	0.00	13.20	16.00	17.50	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/10/14 1:30 AM	200.00	1.90	17.80	13.70	0.00	13.70	16.60	17.80	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/10/14 1:45 AM	198.00	2.00	17.70	14.20	0.00	14.20	16.80	17.70	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/10/14 2:00 AM	186.00	1.60	17.90	14.70	0.00	14.70	16.70	17.90	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/10/14 2:15 AM	183.00	1.70	17.80	0.00	0.00	0.00	16.50	17.80	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/10/14 2:30 AM	191.00	2.10	18.10	14.50	0.00	14.50	17.40	18.10	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/10/14 2:45 AM	170.00	2.50	16.90	9.10	0.00	15.20	16.90	17.70	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/10/14 3:00 AM	165.00	2.50	19.00	9.70	0.00	15.70	19.00	19.20	9.70	0.0								



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
11/10/14 11:15 AM	169.00	8.30	23.30	10.90	0.00	20.30	23.30	20.70	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 11:30 AM	169.00	5.50	19.00	10.40	0.00	18.40	19.00	19.70	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 11:45 AM	162.00	7.60	30.60	9.20	0.00	18.80	30.60	17.70	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 12:00 PM	177.00	9.60	16.20	9.00	0.00	15.40	16.20	17.10	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 12:15 PM	168.00	6.00	17.20	7.70	0.00	21.00	17.20	16.40	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 12:30 PM	184.00	10.80	16.30	16.60	0.30	16.60	15.50	16.30	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 12:45 PM	177.00	7.50	14.60	8.30	0.00	14.10	14.60	16.00	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 1:00 PM	176.00	6.70	21.30	8.00	0.00	15.10	21.30	15.50	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 1:15 PM	175.00	8.50	14.20	8.00	0.00	20.90	14.20	15.50	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 1:30 PM	180.00	9.20	15.10	16.40	1.30	16.40	15.70	15.10	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 1:45 PM	193.00	8.40	16.60	56.10	39.50	56.10	16.60	16.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 2:00 PM	185.00	7.80	15.70	29.80	14.10	29.80	18.90	15.70	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 2:15 PM	181.00	10.10	16.20	17.60	1.40	17.60	18.00	16.20	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 2:30 PM	181.00	9.90	15.70	26.50	10.80	26.50	16.60	15.70	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 2:45 PM	177.00	8.90	18.40	8.50	0.00	27.50	18.40	15.90	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 3:00 PM	165.00	9.80	16.40	8.90	0.00	24.40	16.40	17.90	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 3:15 PM	176.00	7.40	20.90	9.20	0.00	49.50	20.90	17.70	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 3:30 PM	179.00	8.20	20.30	9.20	0.00	29.70	20.30	17.60	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 3:45 PM	177.00	6.90	17.60	9.10	0.00	28.80	17.60	18.10	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 4:00 PM	173.00	8.10	20.80	10.70	0.00	25.20	20.80	19.30	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 4:15 PM	174.00	8.30	16.20	9.00	0.00	23.90	16.20	17.20	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 4:30 PM	183.00	7.40	18.20	36.50	18.30	36.50	17.00	18.20	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 4:45 PM	179.00	6.40	16.10	9.10	0.00	21.50	16.10	17.30	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 5:00 PM	174.00	8.60	17.40	8.90	0.00	23.60	17.40	16.60	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 5:15 PM	168.00	5.90	17.10	8.80	0.00	25.90	17.10	17.90	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 5:30 PM	167.00	8.60	17.40	9.00	0.00	24.80	17.40	17.30	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 5:45 PM	173.00	7.10	19.10	9.20	0.00	22.90	19.10	18.80	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 6:00 PM	171.00	7.70	21.20	9.60	0.00	27.90	21.20	20.90	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 6:15 PM	179.00	5.60	20.70	9.60	0.00	24.40	20.70	21.00	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 6:30 PM	172.00	5.70	19.80	9.80	0.00	23.70	19.80	21.70	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 6:45 PM	171.00	4.80	20.00	9.20	0.00	25.70	20.00	22.10	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 7:00 PM	168.00	4.80	19.60	9.70	0.00	23.10	19.60	22.10	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 7:15 PM	172.00	6.90	18.90	10.00	0.00	21.20	18.90	23.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 7:30 PM	188.00	6.40	21.90	20.10	0.00	20.10	18.10	21.90	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 7:45 PM	177.00	5.40	17.80	10.20	0.00	19.90	17.80	22.10	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 8:00 PM	165.00	7.00	18.80	10.80	0.00	20.80	18.80	22.00	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 8:15 PM	183.00	6.70	23.10	20.20	0.00	20.20	18.10	23.10	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 8:30 PM	174.00	5.00	18.70	11.00	0.00	20.80	18.70	23.20	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 8:45 PM	170.00	5.70	19.70	11.00	0.00	21.50	19.70	23.70	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 9:00 PM	177.00	5.30	18.10	10.60	0.00	20.30	18.10	22.90	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 9:15 PM	177.00	7.10	18.20	10.80	0.00	22.00	18.20	23.00	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 9:30 PM	181.00	7.30	22.40	19.70	0.00	19.70	17.10	22.40	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 9:45 PM	175.00	5.10	17.70	11.00	0.00	19.50	17.70	22.20	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 10:00 PM	175.00	4.90	18.60	11.00	0.00	19.10	18.60	21.90	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 10:15 PM	183.00	7.20	21.70	19.00	0.00	19.00	17.20	21.70	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 10:30 PM	190.00	4.50	21.70	19.00	0.00	19.00	16.50	21.70	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 10:45 PM	183.00	5.80	21.90	18.50	0.00	18.50	16.50	21.90	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 11:00 PM	187.00	7.20	21.20	0.00	0.00	0.00	15.80	21.20	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 11:15 PM	182.00	6.20	21.20	19.40	0.00	19.40	15.90	21.20	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 11:30 PM	194.00	5.60	20.90	17.40	0.00	17.40	15.20	20.90	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/14 11:45 PM	190.00	7.50	20.20	16.50	0.00	16.50	14.80	20.20	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 12:00 AM	188.00	5.70	19.60	16.70	0.00	16.70	14.50	19.60	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 12:15 AM	203.00	5.30	19.60	15.50	0.00	15.50	14.30	19.60	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 12:30 AM	192.00	5.60	19.50	15.30	0.00	15.30	14.20	19.50	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 12:45 AM	193.00	5.30	19.60	17.30	0.00	17.30	14.30	19.60	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 1:00 AM	190.00	5.70	19.60	15.50	0.00	15.50	14.20	19.60	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 1:15 AM	200.00	5.70	19.40	15.80	0.00	15.80	14.20	19.40	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 1:30 AM	186.00	8.30	19.50	17.10	0.00	17.10	15.20	19.50	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 1:45 AM	192.00	5.60	19.30	15.90	0.00	15.90	14.80	19.30	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 2:00 AM	197.00	5.80	19.30	16.00	0.00	16.00	15.10	19.30	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 2:15 AM	194.00	6.20	19.50	15.40	0.00	15.40	15.00	19.50	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 2:30 AM	194.00	5.60	19.40	0.00	0.00	0.00	15.50	19.40	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 2:45 AM	187.00	6.00	19.80	16.70	0.00	16.70	15.10	19.80	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 3:00 AM	201.00	4.30	19.90	15.70	0.00	15.70	15.00	19.90	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 3:15 AM	206.00	6.00	20.30	16.20	0.00	16.20	15.30	20.30	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 3:30 AM	204.00	5.70	20.20	16.00	0.00	16.00	15.40	20.20	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 3:45 AM	200.00	4.50	20.00	16.20	0.00	16.20	15.80	20.00	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 4:00 AM	211.00	5.40	20.00	0.00	0.00	0.00	15.80	20.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 4:15 AM	204.00	5.50	20.00	15.50	0.											



**US Army Corps
of Engineers®**

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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
11/11/14 12:30 PM	259.00	6.60	16.30	0.00	0.00	0.00	9.50	16.30	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 12:45 PM	264.00	3.90	12.40	5.60	0.00	5.60	6.10	12.40	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 1:00 PM	244.00	7.70	12.60	5.00	0.00	5.00	7.30	12.60	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 1:15 PM	267.00	5.40	11.50	4.70	0.00	4.70	5.70	11.50	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 1:30 PM	270.00	4.40	4.80	5.10	0.30	4.70	5.10	10.80	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 1:45 PM	265.00	6.40	11.10	4.60	0.00	4.60	5.60	11.10	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 2:00 PM	267.00	5.70	9.90	4.40	0.00	4.40	4.50	9.90	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 2:15 PM	267.00	6.10	9.90	4.10	0.00	4.10	4.50	9.90	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 2:30 PM	264.00	5.50	9.50	0.00	0.00	0.00	4.10	9.50	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 2:45 PM	269.00	5.50	9.20	4.30	0.00	4.30	3.50	9.20	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 3:00 PM	259.00	6.60	8.80	4.20	0.00	4.20	3.80	8.80	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 3:15 PM	262.00	6.10	8.50	3.90	0.00	3.90	3.20	8.50	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 3:30 PM	287.00	6.90	5.60	3.20	0.00	4.40	3.20	8.20	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 3:45 PM	281.00	6.00	4.50	2.90	0.00	3.80	2.90	8.10	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 4:00 PM	276.00	6.80	4.60	3.30	0.00	4.20	3.30	7.90	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 4:15 PM	283.00	7.00	4.60	2.90	0.00	3.90	2.90	7.60	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 4:30 PM	268.00	5.50	7.10	3.60	0.00	3.60	2.50	7.10	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 4:45 PM	263.00	5.60	7.20	3.70	0.00	3.70	2.10	7.20	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 5:00 PM	272.00	5.30	4.00	2.60	0.00	3.20	2.60	7.50	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 5:15 PM	290.00	7.30	3.80	3.70	0.00	3.40	3.70	7.70	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 5:30 PM	301.00	7.80	3.70	3.60	0.00	3.60	3.60	7.40	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 5:45 PM	313.00	6.20	3.10	2.20	0.00	3.60	2.20	6.70	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 6:00 PM	285.00	6.30	3.50	2.60	0.00	3.70	2.60	6.60	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 6:15 PM	288.00	7.00	3.70	2.90	0.00	3.60	2.90	6.60	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 6:30 PM	304.00	9.30	4.50	4.30	0.00	4.20	4.30	7.50	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 6:45 PM	305.00	7.70	4.80	4.40	0.00	4.40	4.40	7.80	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 7:00 PM	314.00	7.30	5.60	4.60	0.00	4.50	4.60	7.90	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 7:15 PM	307.00	8.00	5.50	4.40	0.00	4.60	4.40	7.60	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 7:30 PM	306.00	6.40	5.50	4.00	0.00	5.70	4.00	7.20	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 7:45 PM	320.00	5.90	4.50	3.00	0.00	5.70	3.00	6.40	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 8:00 PM	301.00	7.00	4.70	3.00	0.00	6.00	3.00	6.70	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 8:15 PM	329.00	7.60	5.00	3.80	0.00	6.60	3.80	6.50	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 8:30 PM	311.00	5.80	4.60	2.60	0.00	6.00	2.60	6.00	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 8:45 PM	319.00	6.90	4.30	3.10	0.00	6.20	3.10	6.20	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 9:00 PM	327.00	6.10	4.10	2.20	0.00	6.50	2.20	6.00	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 9:15 PM	321.00	5.40	3.70	2.10	0.00	5.30	2.10	5.20	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 9:30 PM	317.00	6.70	3.70	2.20	0.00	3.70	2.20	5.20	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 9:45 PM	313.00	8.20	3.50	1.90	0.00	3.70	1.90	5.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 10:00 PM	319.00	8.70	3.40	2.00	0.00	3.00	2.00	5.10	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 10:15 PM	303.00	5.80	3.60	2.10	0.00	3.30	2.10	4.80	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 10:30 PM	321.00	5.10	3.20	1.80	0.00	2.90	1.80	4.60	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 10:45 PM	329.00	6.00	3.00	1.40	0.00	3.00	1.40	4.50	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 11:00 PM	324.00	5.30	3.00	1.50	0.00	3.30	1.50	4.40	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 11:15 PM	309.00	6.90	3.20	1.30	0.00	2.90	1.30	4.50	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 11:30 PM	307.00	7.90	3.00	1.30	0.00	0.00	1.30	4.20	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/14 11:45 PM	322.00	6.20	3.00	1.30	0.00	3.10	1.30	4.10	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/14 12:00 AM	311.00	6.70	3.00	1.40	0.00	3.70	1.40	4.30	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/14 12:15 AM	324.00	5.30	3.00	1.40	0.00	4.10	1.40	4.30	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/14 12:30 AM	302.00	8.40	3.20	1.60	0.00	3.60	1.60	4.30	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/14 12:45 AM	311.00	5.50	3.60	1.60	0.00	0.00	1.60	4.10	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/14 1:00 AM	306.00	5.80	3.40	1.70	0.00	2.90	1.70	4.10	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/14 1:15 AM	319.00	8.00	3.40	1.40	0.00	2.20	1.40	4.30	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/14 1:30 AM	322.00	6.10	3.30	1.30	0.00	1.60	1.30	4.20	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/14 1:45 AM	321.00	6.60	3.40	1.70	0.00	1.80	1.70	4.10	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/14 2:00 AM	286.00	6.70	3.10	1.30	0.00	2.10	1.30	4.10	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/14 2:15 AM	318.00	5.80	3.30	1.80	0.00	2.30	1.80	4.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/14 2:30 AM	282.00	4.20	3.20	1.70	0.00	2.90	1.70	4.10	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/14 2:45 AM	302.00	4.60	3.70	1.70	0.00	3.20	1.70	4.20	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/14 3:00 AM	291.00	6.90	3.40	2.60	0.00	0.00	2.60	4.10	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/14 3:15 AM	293.00	5.70	3.50	2.50	0.00	2.90	2.50	3.90	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/14 3:30 AM	288.00	5.90	3.40	2.10	0.00	2.10	2.10	3.90	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/14 3:45 AM	293.00	6.30	3.50	2.20	0.00	0.00	2.20	3.80	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/14 4:00 AM	287.00	4.90	3.20	2.00	0.00	1.50	2.00	4.00	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/14 4:15 AM	297.00	5.60	3.50	2.20	0.00	1.60	2.20	3.80	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/14 4:30 AM	278.00	6.80	3.30	2.50	0.00	1.80	2.50	3.90	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/14 4:45 AM	297.00	5.90	3.50	2.20	0.00	2.70	2.20	3.70	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/14 5:00 AM	318.00	6.20	3.50	2.60	0.00	3.20	2.60	4.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/14 5:15 AM	310.00	7.50	3.40	3.30	0.00	3.60	3.30	4.10	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/14 5:30 AM	304.00	7.90	4.00	3.30	0.00	4.20	3.30	4.30	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/14 5:45 AM	299.00	6.90	3.70	3.10	0.00	4.10	3.10	4.00	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/14 6:00 AM	326.00	4.20	3.30	3.00</												



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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
11/13/14 3:00 PM	280.00	4.30	12.80	13.70	0.90	9.70	13.70	9.50	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 3:15 PM	296.00	5.50	12.20	13.20	1.00	9.70	13.20	10.40	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 3:30 PM	296.00	5.10	11.50	12.40	0.90	10.30	12.40	10.10	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 3:45 PM	311.00	4.70	10.60	11.90	1.30	11.50	11.90	12.00	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 4:00 PM	285.00	5.50	10.10	10.80	0.70	10.50	10.80	9.80	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 4:15 PM	309.00	6.30	9.50	12.80	3.30	11.50	12.80	10.60	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 4:30 PM	302.00	6.70	11.50	15.10	3.60	12.70	15.10	12.80	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 4:45 PM	305.00	6.30	9.20	12.30	3.10	7.90	12.30	11.10	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 5:00 PM	282.00	5.60	8.90	13.30	4.40	8.10	13.30	10.80	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 5:15 PM	303.00	4.60	10.30	17.40	7.10	9.40	17.40	12.80	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 5:30 PM	287.00	4.30	9.50	14.70	5.20	9.60	14.70	11.50	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 5:45 PM	271.00	4.60	8.80	12.70	3.90	8.80	12.70	10.90	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 6:00 PM	267.00	4.50	10.50	9.20	0.00	9.20	12.30	10.50	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 6:15 PM	278.00	4.30	7.70	12.50	4.80	9.00	12.50	10.90	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 6:30 PM	285.00	4.70	8.60	10.90	2.30	9.70	10.90	10.30	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 6:45 PM	288.00	4.40	9.00	11.50	2.50	9.80	11.50	10.70	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 7:00 PM	294.00	3.70	9.50	28.10	18.60	11.70	28.10	12.00	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 7:15 PM	276.00	2.90	9.20	16.50	7.30	9.80	16.50	12.10	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 7:30 PM	263.00	3.30	12.50	10.50	0.00	10.50	20.30	12.50	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 7:45 PM	276.00	3.00	9.10	21.30	12.20	9.10	21.30	12.70	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 8:00 PM	279.00	2.40	9.00	21.60	12.60	8.10	21.60	13.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 8:15 PM	285.00	2.20	8.10	20.20	12.10	7.40	20.20	12.80	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 8:30 PM	269.00	3.50	12.90	8.10	0.00	8.10	23.40	12.90	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 8:45 PM	300.00	4.40	7.20	16.90	9.70	7.60	16.90	12.00	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 9:00 PM	296.00	4.50	9.70	59.00	49.30	13.60	59.00	24.40	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 9:15 PM	275.00	2.10	8.20	28.80	20.60	10.70	28.80	15.60	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 9:30 PM	268.00	2.90	17.40	10.00	0.00	10.00	33.20	17.40	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 9:45 PM	296.00	3.90	7.50	29.20	21.70	9.80	29.20	17.00	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 10:00 PM	291.00	4.40	7.30	28.00	20.70	9.40	28.00	16.30	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 10:15 PM	295.00	4.40	6.70	27.40	20.70	8.80	27.40	16.00	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 10:30 PM	300.00	4.00	6.20	22.90	16.70	9.20	22.90	15.90	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 10:45 PM	284.00	4.10	6.00	25.10	19.10	0.00	25.10	15.30	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 11:00 PM	280.00	3.50	6.90	27.90	21.00	10.60	27.90	15.50	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 11:15 PM	276.00	4.50	7.60	27.50	19.90	11.70	27.50	15.50	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 11:30 PM	278.00	4.20	8.60	50.20	41.60	13.90	50.20	18.40	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/13/14 11:45 PM	289.00	3.30	9.30	40.70	31.40	13.50	40.70	18.30	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 12:00 AM	274.00	2.70	9.60	41.70	32.10	13.70	41.70	18.70	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 12:15 AM	272.00	3.50	9.00	40.00	31.00	11.50	40.00	18.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 12:30 AM	262.00	2.40	17.70	11.20	0.00	11.20	38.80	17.70	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 12:45 AM	287.00	3.00	9.40	37.60	28.20	10.40	37.60	17.50	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 1:00 AM	316.00	3.80	6.40	36.60	30.20	6.80	36.60	16.00	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 1:15 AM	320.00	3.70	5.40	17.60	12.20	5.90	17.60	13.00	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 1:30 AM	311.00	3.90	5.50	20.10	14.60	6.10	20.10	12.90	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 1:45 AM	302.00	3.30	5.20	17.90	12.70	6.60	17.90	12.50	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 2:00 AM	312.00	4.20	5.50	21.70	16.20	7.40	21.70	12.30	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 2:15 AM	306.00	5.20	5.80	24.90	19.10	8.70	24.90	12.60	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 2:30 AM	319.00	4.20	5.90	20.10	14.20	9.00	20.10	12.60	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 2:45 AM	321.00	3.40	6.10	19.90	13.80	9.10	19.90	12.10	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 3:00 AM	254.00	4.20	14.90	9.60	0.00	9.60	32.80	14.90	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 3:15 AM	255.00	4.60	14.90	12.30	0.00	12.30	33.50	14.90	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 3:30 AM	277.00	3.90	7.30	28.00	20.70	10.80	28.00	15.10	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 3:45 AM	260.00	4.10	14.20	10.00	0.00	10.00	25.10	14.20	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 4:00 AM	270.00	3.50	6.50	18.70	12.20	9.10	18.70	12.10	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 4:15 AM	275.00	4.70	5.60	18.30	12.70	8.20	18.30	11.70	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 4:30 AM	290.00	3.70	6.20	21.60	15.40	8.80	21.60	12.10	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 4:45 AM	311.00	4.30	6.50	26.30	19.80	8.80	26.30	13.00	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 5:00 AM	316.00	3.20	6.20	20.60	14.40	9.70	20.60	12.00	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 5:15 AM	288.00	3.30	5.80	19.80	14.00	9.30	19.80	11.70	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 5:30 AM	268.00	2.70	13.80	9.30	0.00	9.30	19.10	13.80	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 5:45 AM	262.00	2.70	13.10	10.90	0.00	10.90	24.80	13.10	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 6:00 AM	265.00	3.20	12.20	11.90	0.00	11.90	22.50	12.20	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 6:15 AM	277.00	2.50	5.60	17.10	11.50	9.10	17.10	11.50	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 6:30 AM	268.00	4.20	11.40	7.90	0.00	7.90	16.80	11.40	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 6:45 AM	261.00	4.10	12.50	0.00	0.00	0.00	22.40	12.50	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 7:00 AM	278.00	4.40	6.40	22.40	16.00	9.00	22.40	12.60	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 7:15 AM	273.00	3.50	6.80	23.50	16.70	9.40	23.50	12.40	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 7:30 AM	271.00	3.90	6.50	21.00	14.50	8.30	21.00	12.60	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 7:45 AM	265.00	4.00	12.30	8.60	0.00	8.60	25.20	12.30	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/14/14 8:00 AM	285.00	3.40	7.80	25.50	17.70	7.90	25.50	12.60	7.80	0.00	0.00	0						



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
11/15/14 5:30 PM	224.00	2.30	26.70	23.80	0.00	23.80	28.90	26.70	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/15/14 5:45 PM	200.00	3.10	27.40	23.80	0.00	23.80	30.20	27.40	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/15/14 6:00 PM	217.00	3.50	28.00	24.50	0.00	24.50	30.70	28.00	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/15/14 6:15 PM	240.00	3.60	27.70	24.10	0.00	24.10	31.20	27.70	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/15/14 6:30 PM	205.00	2.80	26.60	23.50	0.00	23.50	30.50	26.60	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/15/14 6:45 PM	240.00	2.70	26.20	22.60	0.00	22.60	30.10	26.20	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/15/14 7:00 PM	213.00	2.70	25.50	21.80	0.00	21.80	29.40	25.50	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/15/14 7:15 PM	214.00	3.20	24.40	22.00	0.00	22.00	28.40	24.40	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/15/14 7:30 PM	208.00	1.50	24.30	21.90	0.00	21.90	25.70	24.30	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/15/14 7:45 PM	216.00	2.20	22.60	22.10	0.00	22.10	24.60	22.60	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/15/14 8:00 PM	224.00	2.70	22.40	22.10	0.00	22.10	23.50	22.40	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/15/14 8:15 PM	228.00	2.80	23.00	22.60	0.00	22.60	24.60	23.00	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/15/14 8:30 PM	228.00	3.20	23.80	23.90	0.10	23.90	26.20	23.80	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/15/14 8:45 PM	208.00	2.50	24.90	25.90	1.00	25.90	26.20	24.90	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/15/14 9:00 PM	224.00	2.50	25.80	26.50	0.70	26.50	27.20	25.80	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/15/14 9:15 PM	231.00	2.60	26.30	26.70	0.40	26.70	28.20	26.30	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/15/14 9:30 PM	240.00	1.50	26.30	26.20	0.00	26.20	28.80	26.30	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/15/14 9:45 PM	280.00	1.40	22.00	29.00	7.00	25.80	29.00	26.20	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/15/14 10:00 PM	258.00	2.10	26.30	25.40	0.00	25.40	28.20	26.30	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/15/14 10:15 PM	254.00	1.60	26.00	25.60	0.00	25.60	28.70	26.00	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/15/14 10:30 PM	272.00	1.90	23.10	29.50	6.40	25.90	29.50	27.10	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/15/14 10:45 PM	265.00	2.00	26.60	24.50	0.00	24.50	28.90	26.60	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/15/14 11:00 PM	241.00	1.20	27.10	24.50	0.00	24.50	30.80	27.10	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/15/14 11:15 PM	191.00	1.70	29.00	23.90	0.00	23.90	30.90	29.00	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/15/14 11:30 PM	180.00	1.40	28.70	23.50	0.00	23.50	30.50	28.70	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/15/14 11:45 PM	185.00	2.30	30.30	23.10	0.00	23.10	32.10	30.30	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 12:00 AM	182.00	2.00	29.40	23.40	0.00	23.40	31.10	29.40	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 12:15 AM	186.00	3.60	29.00	23.70	0.00	23.70	31.30	29.00	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 12:30 AM	190.00	3.00	29.70	25.10	0.00	25.10	31.90	29.70	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 12:45 AM	181.00	2.40	31.40	27.60	0.00	27.60	33.60	31.40	26.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 1:00 AM	185.00	3.60	32.70	30.10	0.00	30.10	35.40	32.70	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 1:15 AM	197.00	3.40	33.00	31.60	0.00	31.60	36.10	33.00	28.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 1:30 AM	189.00	2.80	32.50	31.20	0.00	31.20	34.30	32.50	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 1:45 AM	192.00	3.10	31.20	29.80	0.00	29.80	32.50	31.20	27.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 2:00 AM	187.00	2.80	27.60	25.30	0.00	25.30	29.40	27.60	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 2:15 AM	199.00	3.00	26.90	22.40	0.00	22.40	26.20	26.90	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 2:30 AM	201.00	3.70	25.20	19.90	0.00	19.90	23.80	25.20	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 2:45 AM	199.00	3.60	24.60	19.50	0.00	19.50	23.60	24.60	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 3:00 AM	191.00	4.10	24.70	18.90	0.00	18.90	23.90	24.70	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 3:15 AM	183.00	3.60	25.10	18.80	0.00	18.80	24.80	25.10	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 3:30 AM	180.00	3.30	26.00	19.80	0.00	19.80	26.20	26.00	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 3:45 AM	191.00	2.90	27.10	19.70	0.00	19.70	26.10	27.10	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 4:00 AM	197.00	2.60	27.80	20.80	0.00	20.80	27.90	27.80	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 4:15 AM	196.00	2.80	28.60	21.30	0.00	21.30	28.20	28.60	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 4:30 AM	199.00	3.10	26.80	19.50	0.00	19.50	28.70	26.80	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 4:45 AM	186.00	2.10	26.20	18.40	0.00	18.40	26.90	26.20	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 5:00 AM	190.00	2.30	26.50	17.70	0.00	17.70	25.70	26.50	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 5:15 AM	197.00	3.30	25.50	16.80	0.00	16.80	25.20	25.50	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 5:30 AM	211.00	2.30	25.90	16.80	0.00	16.80	25.20	25.90	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 5:45 AM	215.00	2.10	26.60	17.40	0.00	17.40	25.40	26.60	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 6:00 AM	204.00	2.40	25.90	16.80	0.00	16.80	26.50	25.90	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 6:15 AM	215.00	2.50	25.80	16.70	0.00	16.70	26.60	25.80	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 6:30 AM	198.00	2.50	26.00	16.50	0.00	16.50	26.70	26.00	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 6:45 AM	204.00	2.70	26.10	17.70	0.00	17.70	26.70	26.10	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 7:00 AM	208.00	2.00	26.10	18.00	0.00	18.00	26.80	26.10	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 7:15 AM	200.00	2.90	26.10	18.00	0.00	18.00	27.00	26.10	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 7:30 AM	190.00	2.80	26.30	17.80	0.00	17.80	27.20	26.30	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 7:45 AM	191.00	2.40	26.50	17.80	0.00	17.80	27.80	26.50	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 8:00 AM	186.00	2.70	29.30	18.10	0.00	18.10	30.50	29.30	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 8:15 AM	181.00	3.40	29.80	18.40	0.00	18.40	31.40	29.80	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 8:30 AM	187.00	3.80	28.60	18.00	0.00	18.00	33.50	28.60	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 8:45 AM	199.00	2.80	28.90	18.50	0.00	18.50	34.80	28.90	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 9:00 AM	195.00	3.90	30.20	18.20	0.00	18.20	37.80	30.20	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 9:15 AM	202.00	3.10	31.20	18.60	0.00	18.60	37.80	31.20	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 9:30 AM	194.00	4.00	31.20	18.30	0.00	18.30	38.70	31.20	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 9:45 AM	214.00	4.40	31.60	17.70	0.00	17.70	38.70	31.60	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 10:00 AM	221.00	3.40	32.30	17.10	0.00	17.10	40.30	32.30	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/16/14 10:15 AM	205.00	3.30	32.50	16.70	0.00	16.70	40.00	32.50	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		



**US Army Corps
of Engineers®**

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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
11/16/14 6:45 PM	201.00	3.70	24.80	16.30	0.00	16.30	29.10	24.80	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/16/14 7:00 PM	214.00	4.10	24.90	16.00	0.00	16.00	29.00	24.90	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/16/14 7:15 PM	220.00	3.40	24.00	15.10	0.00	15.10	27.60	24.00	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/16/14 7:30 PM	217.00	3.80	24.00	0.00	0.00	0.00	27.60	24.00	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/16/14 7:45 PM	218.00	4.10	24.50	14.30	0.00	14.30	27.80	24.50	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/16/14 8:00 PM	209.00	3.10	24.30	14.30	0.00	14.30	28.00	24.30	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/16/14 8:15 PM	225.00	4.60	24.90	14.90	0.00	14.90	27.90	24.90	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/16/14 8:30 PM	221.00	3.80	24.90	15.30	0.00	15.30	28.20	24.90	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/16/14 8:45 PM	223.00	4.40	25.60	16.60	0.00	16.60	29.80	25.60	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/16/14 9:00 PM	230.00	4.80	25.60	16.70	0.00	16.70	29.60	25.60	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/16/14 9:15 PM	239.00	3.60	26.40	17.10	0.00	17.10	30.20	26.40	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/16/14 9:30 PM	242.00	3.90	27.10	17.60	0.00	17.60	31.20	27.10	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/16/14 9:45 PM	261.00	5.60	27.00	18.80	0.00	18.80	32.80	27.00	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/16/14 10:00 PM	271.00	5.00	22.80	31.50	8.70	19.00	31.50	25.60	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/16/14 10:15 PM	274.00	4.10	20.70	27.00	6.30	18.00	27.00	23.70	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/16/14 10:30 PM	266.00	5.30	23.10	18.40	0.00	18.40	26.20	23.10	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/16/14 10:45 PM	258.00	5.40	23.20	19.60	0.00	19.60	25.90	23.20	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/16/14 11:00 PM	277.00	5.50	21.20	26.60	5.40	21.00	26.60	23.80	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/16/14 11:15 PM	259.00	5.10	22.80	20.70	0.00	20.70	25.20	22.80	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/16/14 11:30 PM	255.00	5.50	21.90	20.10	0.00	20.10	24.30	21.90	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/16/14 11:45 PM	250.00	3.70	21.20	20.20	0.00	20.20	23.00	21.20	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 12:00 AM	252.00	3.30	21.10	20.30	0.00	20.30	23.20	21.10	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 12:15 AM	256.00	3.70	21.30	21.30	0.00	21.30	23.50	21.30	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 12:30 AM	234.00	4.70	22.30	22.50	0.20	22.50	23.90	22.30	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 12:45 AM	255.00	5.50	22.70	24.00	1.30	24.00	25.70	22.70	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 1:00 AM	273.00	5.40	24.10	31.50	7.40	27.40	31.50	26.80	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 1:15 AM	277.00	6.60	23.50	30.70	7.20	26.20	30.70	26.80	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 1:30 AM	279.00	4.60	21.30	28.70	7.40	22.40	28.70	24.90	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 1:45 AM	270.00	5.30	19.30	24.20	4.90	20.10	24.20	22.70	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 2:00 AM	235.00	5.60	23.50	21.60	0.00	21.60	25.90	23.50	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 2:15 AM	245.00	5.00	24.40	21.90	0.00	21.90	26.90	24.40	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 2:30 AM	264.00	3.00	24.10	21.20	0.00	21.20	26.60	24.10	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 2:45 AM	268.00	4.40	20.80	17.70	0.00	17.70	22.20	20.80	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 3:00 AM	271.00	4.80	15.90	20.90	5.00	17.70	20.90	19.30	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 3:15 AM	275.00	5.60	15.20	18.00	2.80	17.30	18.00	18.50	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 3:30 AM	286.00	5.60	9.50	13.60	4.10	11.00	13.60	13.20	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 3:45 AM	280.00	5.50	9.10	11.30	2.20	11.00	11.30	12.90	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 4:00 AM	260.00	5.00	13.00	11.10	0.00	11.10	12.00	13.00	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 4:15 AM	261.00	3.40	13.50	11.00	0.00	11.00	11.90	13.50	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 4:30 AM	244.00	4.80	13.40	11.40	0.00	11.40	12.30	13.40	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 4:45 AM	252.00	5.90	14.80	12.10	0.00	12.10	13.80	14.80	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 5:00 AM	259.00	5.20	15.20	12.30	0.00	12.30	15.10	15.20	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 5:15 AM	267.00	3.80	15.30	10.70	0.00	10.70	14.90	15.30	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 5:30 AM	264.00	3.30	15.60	10.90	0.00	10.90	16.00	15.60	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 5:45 AM	284.00	6.50	10.60	15.10	4.50	9.80	15.10	15.40	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 6:00 AM	270.00	5.30	9.70	15.50	5.80	8.70	15.50	15.90	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 6:15 AM	270.00	4.90	9.60	14.70	5.10	8.40	14.70	15.70	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 6:30 AM	266.00	4.70	15.90	8.30	0.00	8.30	14.50	15.90	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 6:45 AM	280.00	5.40	9.40	14.50	5.10	8.70	14.50	15.40	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 7:00 AM	280.00	4.90	10.10	14.90	4.80	9.80	14.90	15.50	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 7:15 AM	257.00	3.50	15.40	9.50	0.00	9.50	14.50	15.40	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 7:30 AM	272.00	6.10	10.80	14.50	3.70	9.60	14.50	15.60	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 7:45 AM	274.00	4.20	10.60	14.80	4.20	9.60	14.80	15.90	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 8:00 AM	280.00	5.10	10.80	15.20	4.40	9.60	15.20	16.30	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 8:15 AM	263.00	5.00	16.90	9.40	0.00	9.40	15.70	16.90	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 8:30 AM	277.00	5.90	10.70	15.50	4.80	8.70	15.50	16.80	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 8:45 AM	267.00	5.00	17.00	8.90	0.00	8.90	15.60	17.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 9:00 AM	262.00	5.00	17.20	8.70	0.00	8.70	16.20	17.20	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 9:15 AM	261.00	4.80	17.40	9.20	0.00	9.20	16.60	17.40	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 9:30 AM	238.00	6.00	16.20	10.20	0.00	10.20	15.70	16.20	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 9:45 AM	249.00	5.20	16.20	10.30	0.00	10.30	16.00	16.20	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 10:00 AM	253.00	5.80	16.20	11.20	0.00	11.20	15.90	16.20	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 10:15 AM	265.00	4.50	15.60	13.70	0.00	13.70	15.80	15.60	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 10:30 AM	270.00	4.80	8.90	15.00	6.10	11.90	15.00	15.30	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 10:45 AM	275.00	6.20	10.00	14.80	4.80	13.20	14.80	15.20	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 11:00 AM	270.00	6.30	9.30	15.40	6.10	12.60	15.40	15.80	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 11:15 AM	267.00	6.00	15.50	12.20	0.00	12.20	15.20	15.50	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 11:30 AM	268.00	5.50	15.60	10.00	0.00	10.00	14.40	15.60	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/14 11:45 AM	267.00	8.5														



**US Army Corps
of Engineers**

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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
11/17/14 8:00 PM	256.00	10.20	18.40	9.90	0.00	9.90	55.20	18.40	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/17/14 8:15 PM	268.00	8.30	19.40	11.10	0.00	11.10	51.40	19.40	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/17/14 8:30 PM	266.00	6.40	18.20	12.60	0.00	12.60	40.30	18.20	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/17/14 8:45 PM	272.00	9.30	5.70	51.40	45.70	11.30	51.40	21.40	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/17/14 9:00 PM	265.00	10.30	19.00	11.90	0.00	11.90	38.70	19.00	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/17/14 9:15 PM	258.00	9.90	18.70	12.00	0.00	12.00	40.50	18.70	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/17/14 9:30 PM	263.00	7.80	18.40	12.90	0.00	12.90	48.60	18.40	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/17/14 9:45 PM	258.00	11.90	21.90	12.10	0.00	12.10	65.90	21.90	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/17/14 10:00 PM	258.00	8.90	18.60	12.50	0.00	12.50	43.80	18.60	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/17/14 10:15 PM	257.00	8.20	18.60	12.20	0.00	12.20	54.00	18.60	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/17/14 10:30 PM	260.00	9.50	19.30	17.50	0.00	17.50	70.20	19.30	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/17/14 10:45 PM	277.00	7.50	8.60	98.30	89.70	16.50	98.30	23.10	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/17/14 11:00 PM	255.00	7.10	19.20	12.40	0.00	12.40	42.30	19.20	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/17/14 11:15 PM	263.00	7.20	19.00	11.50	0.00	11.50	40.00	19.00	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/17/14 11:30 PM	272.00	6.00	6.90	42.30	35.40	11.20	42.30	19.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/17/14 11:45 PM	261.00	7.50	21.00	13.20	0.00	13.20	43.20	21.00	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 12:00 AM	269.00	6.70	19.00	11.80	0.00	11.80	52.50	19.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 12:15 AM	270.00	6.40	6.80	42.70	35.90	12.20	42.70	19.00	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 12:30 AM	273.00	7.10	6.70	43.40	36.70	12.60	43.40	20.90	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 12:45 AM	266.00	7.50	18.40	12.90	0.00	12.90	42.20	18.40	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 1:00 AM	268.00	5.80	19.10	12.60	0.00	12.60	40.40	19.10	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 1:15 AM	260.00	5.90	18.50	12.10	0.00	12.10	42.70	18.50	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 1:30 AM	262.00	6.20	18.10	0.00	0.00	0.00	40.70	18.10	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 1:45 AM	268.00	6.20	18.40	12.00	0.00	12.00	43.90	18.40	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 2:00 AM	257.00	7.50	18.50	12.60	0.00	12.60	42.90	18.50	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 2:15 AM	262.00	8.30	18.10	12.80	0.00	12.80	43.20	18.10	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 2:30 AM	251.00	7.80	17.60	13.30	0.00	13.30	43.70	17.60	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 2:45 AM	257.00	6.30	17.60	13.80	0.00	13.80	45.40	17.60	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 3:00 AM	257.00	8.60	20.00	15.40	0.00	15.40	46.40	20.00	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 3:15 AM	259.00	7.50	18.70	15.70	0.00	15.70	48.60	18.70	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 3:30 AM	261.00	9.30	19.10	14.20	0.00	14.20	51.60	19.10	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 3:45 AM	264.00	8.60	18.40	13.20	0.00	13.20	46.50	18.40	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 4:00 AM	254.00	8.10	18.40	0.00	0.00	0.00	46.30	18.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 4:15 AM	254.00	7.50	17.20	12.40	0.00	12.40	39.40	17.20	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 4:30 AM	259.00	7.90	17.20	13.30	0.00	13.30	43.30	17.20	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 4:45 AM	256.00	8.30	17.70	0.00	0.00	0.00	43.40	17.70	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 5:00 AM	259.00	6.80	18.10	14.80	0.00	14.80	45.40	18.10	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 5:15 AM	243.00	8.00	17.10	0.00	0.00	0.00	43.60	17.10	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 5:30 AM	260.00	8.20	16.50	14.00	0.00	14.00	40.60	16.50	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 5:45 AM	250.00	6.90	16.90	12.80	0.00	12.80	36.50	16.90	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 6:00 AM	255.00	10.00	19.80	11.70	0.00	11.70	64.10	19.80	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 6:15 AM	249.00	7.70	17.00	12.50	0.00	12.50	41.50	17.00	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 6:30 AM	251.00	8.60	15.60	12.90	0.00	12.90	35.10	15.60	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 6:45 AM	252.00	8.90	15.50	12.70	0.00	12.70	36.40	15.50	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 7:00 AM	246.00	8.60	15.50	13.40	0.00	13.40	32.90	15.50	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 7:15 AM	254.00	9.70	15.40	12.90	0.00	12.90	47.00	15.40	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 7:30 AM	247.00	7.20	17.00	13.60	0.00	13.60	38.40	17.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 7:45 AM	261.00	8.30	15.90	13.60	0.00	13.60	45.50	15.90	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 8:00 AM	260.00	9.90	16.40	0.00	0.00	0.00	43.80	16.40	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 8:15 AM	263.00	6.50	16.50	13.70	0.00	13.70	47.80	16.50	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 8:30 AM	247.00	8.50	16.50	15.00	0.00	15.00	45.50	16.50	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 8:45 AM	257.00	7.90	17.90	17.60	0.00	17.60	48.50	17.90	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 9:00 AM	253.00	9.40	17.20	16.40	0.00	16.40	42.60	17.20	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 9:15 AM	258.00	5.80	15.60	15.70	0.10	15.70	44.50	15.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 9:30 AM	240.00	5.20	15.90	19.10	3.20	19.10	40.00	15.90	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 9:45 AM	254.00	8.30	15.50	0.00	0.00	0.00	40.10	15.50	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 10:00 AM	241.00	7.20	15.40	12.90	0.00	12.90	36.00	15.40	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 10:15 AM	252.00	8.10	13.00	19.10	6.10	19.10	31.60	13.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 10:30 AM	268.00	8.30	12.80	15.10	2.30	15.10	33.50	12.80	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 10:45 AM	261.00	7.90	13.70	15.30	1.60	15.30	34.10	13.70	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 11:00 AM	244.00	9.90	15.90	21.90	6.00	21.90	36.00	15.90	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 11:15 AM	256.00	8.00	15.30	45.00	29.70	45.00	45.60	15.30	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 11:30 AM	260.00	9.40	12.90	21.50	8.60	21.50	52.80	12.90	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 11:45 AM	240.00	8.70	13.10	22.80	9.70	22.80	40.50	13.10	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 12:00 PM	267.00	7.60	14.70	20.00	5.30	20.00	39.90	14.70	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 12:15 PM	273.00	9.20	7.20	36.90	29.70	18.80	36.90	14.10	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 12:30 PM	259.00	6.80	14.00	16.80	2.80	16.80	34.80	14.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 12:45 PM	246.00	7.50	14.00	17.50	3.50	17.50	33.00	14.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 1:00 PM	237.00	9.10	17.00	22.40	5.40													



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November 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)								Naphthalene (µg/m³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
11/18/14 9:15 PM	225.00	5.50	16.60	15.50	0.00	15.50	28.00	16.60	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 9:30 PM	228.00	5.50	16.30	14.10	0.00	14.10	26.80	16.30	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 9:45 PM	236.00	4.70	16.00	13.00	0.00	13.00	25.80	16.00	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 10:00 PM	222.00	4.80	15.70	12.80	0.00	12.80	25.00	15.70	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 10:15 PM	215.00	3.20	15.10	12.80	0.00	12.80	23.40	15.10	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 10:30 PM	206.00	3.30	15.20	0.00	0.00	0.00	22.80	15.20	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 10:45 PM	207.00	3.60	15.10	15.00	0.00	15.00	23.30	15.10	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 11:00 PM	202.00	4.40	15.50	16.20	0.70	16.20	23.20	15.50	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 11:15 PM	202.00	4.40	16.50	18.30	1.80	18.30	28.40	16.50	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 11:30 PM	194.00	4.70	16.60	19.20	2.60	19.20	26.30	16.60	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/18/14 11:45 PM	200.00	4.50	14.80	15.10	0.30	15.10	19.30	14.80	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 12:00 AM	193.00	4.50	13.90	15.20	1.30	15.20	19.40	13.90	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 12:15 AM	196.00	4.30	14.30	15.00	0.70	15.00	19.30	14.30	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 12:30 AM	194.00	4.60	14.10	13.90	0.00	13.90	18.30	14.10	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 12:45 AM	198.00	4.80	14.10	14.00	0.00	14.00	19.70	14.10	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 1:00 AM	205.00	5.10	13.60	13.60	0.00	13.60	18.10	13.60	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 1:15 AM	191.00	5.50	13.40	14.00	0.60	14.00	18.10	13.40	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 1:30 AM	178.00	5.70	17.90	8.70	0.00	14.00	17.90	13.40	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 1:45 AM	184.00	4.70	13.60	14.50	0.90	14.50	17.90	13.60	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 2:00 AM	178.00	5.00	17.10	8.90	0.00	14.20	17.10	14.00	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 2:15 AM	170.00	4.40	17.40	8.60	0.00	15.20	17.40	12.80	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 2:30 AM	182.00	3.70	13.10	14.50	1.40	14.50	16.70	13.10	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 2:45 AM	174.00	5.40	17.40	9.00	0.00	12.90	17.40	13.70	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 3:00 AM	182.00	3.90	13.40	12.40	0.00	12.40	17.90	13.40	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 3:15 AM	174.00	4.40	18.00	9.30	0.00	11.10	18.00	13.60	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 3:30 AM	181.00	6.60	13.90	10.90	0.00	10.90	17.50	13.90	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 3:45 AM	171.00	7.20	17.40	8.90	0.00	11.20	17.40	14.10	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 4:00 AM	171.00	6.30	18.70	9.50	0.00	13.00	18.70	14.50	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 4:15 AM	177.00	7.00	19.10	9.60	0.00	14.30	19.10	14.60	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 4:30 AM	170.00	4.70	19.00	10.00	0.00	15.30	19.00	14.80	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 4:45 AM	170.00	4.70	18.80	9.90	0.00	14.80	18.80	14.90	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 5:00 AM	174.00	6.80	17.60	9.50	0.00	15.60	17.60	13.90	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 5:15 AM	163.00	6.50	18.90	9.40	0.00	14.30	18.90	13.60	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 5:30 AM	168.00	8.00	16.10	8.40	0.00	13.40	16.10	13.20	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 5:45 AM	175.00	7.70	16.10	8.20	0.00	0.00	16.10	12.50	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 6:00 AM	175.00	7.40	16.20	8.20	0.00	13.40	16.20	11.90	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 6:15 AM	172.00	6.70	14.80	8.40	0.00	14.60	14.80	12.30	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 6:30 AM	173.00	5.70	15.50	8.50	0.00	15.80	15.50	13.00	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 6:45 AM	169.00	6.10	25.60	10.50	0.00	22.50	25.60	14.60	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 7:00 AM	188.00	4.70	14.00	0.00	0.00	0.00	20.90	14.00	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 7:15 AM	170.00	7.10	18.20	9.90	0.00	14.80	18.20	14.30	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 7:30 AM	175.00	4.90	18.50	9.50	0.00	12.90	18.50	14.30	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 7:45 AM	182.00	5.10	14.50	14.00	0.00	14.00	21.00	14.50	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 8:00 AM	179.00	6.70	19.20	10.90	0.00	14.20	19.20	14.90	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 8:15 AM	183.00	4.70	15.60	14.80	0.00	14.80	21.50	15.60	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 8:30 AM	169.00	6.70	21.70	11.20	0.00	15.70	21.70	15.50	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 8:45 AM	183.00	6.30	16.30	19.20	2.90	19.20	21.10	16.30	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 9:00 AM	200.00	6.00	16.30	19.00	2.70	19.00	22.10	16.30	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 9:15 AM	188.00	6.20	16.70	19.60	2.90	19.60	20.70	16.70	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 9:30 AM	193.00	7.40	15.20	19.50	4.30	19.50	18.90	15.20	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 9:45 AM	188.00	5.80	15.90	18.30	2.40	18.30	18.30	15.90	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 10:00 AM	212.00	6.30	14.80	16.40	1.60	16.40	17.70	14.80	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 10:15 AM	207.00	6.10	14.40	15.00	0.60	15.00	17.30	14.40	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 10:30 AM	211.00	4.70	14.20	14.50	0.30	14.50	16.00	14.20	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 10:45 AM	226.00	7.50	14.20	14.10	0.00	14.10	16.80	14.20	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 11:00 AM	236.00	7.90	14.80	13.90	0.00	13.90	17.40	14.80	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 11:15 AM	239.00	7.20	14.20	15.50	1.30	15.50	17.70	14.20	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 11:30 AM	242.00	7.60	14.70	17.10	2.40	17.10	18.40	14.70	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 11:45 AM	253.00	8.20	15.40	22.90	7.50	22.90	19.00	15.40	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 12:00 PM	258.00	8.10	16.30	21.00	4.70	21.00	20.50	16.30	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 12:15 PM	266.00	5.30	16.10	23.40	7.30	23.40	20.90	16.10	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 12:30 PM	274.00	7.40	16.70	23.00	6.30	23.00	23.00	16.70	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 12:45 PM	252.00	9.00	17.60	27.20	9.60	27.20	23.00	17.60	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 1:00 PM	268.00	7.60	19.60	26.90	7.30	26.90	21.90	19.60	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 1:15 PM	271.00	7.30	19.30	21.40	2.10	31.00	21.40	20.20	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 1:30 PM	272.00	8.40	24.30	23.70	0.00	31.00	23.70	20.00	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 1:45 PM	261.00	6.80	22.20	35.10	12.90	35.10	27.10	22.20	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 2:00 PM	267.00	8.50	24.80	32.20	7.40	32.20	30.20	24.80	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 2:15 PM	263.00	9.00	26.80	35.90														



US Army Corps
of Engineers®

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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
11/19/14 10:30 PM	275.00	6.30	6.60	10.70	4.10	11.20	10.70	12.70	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 10:45 PM	274.00	4.60	6.50	11.20	4.70	11.00	11.20	12.70	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 11:00 PM	277.00	9.20	6.40	11.40	5.00	11.20	11.40	13.30	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 11:15 PM	267.00	6.10	12.50	10.80	0.00	10.80	12.40	12.50	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 11:30 PM	280.00	6.90	6.60	10.30	3.70	11.20	10.30	12.20	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/19/14 11:45 PM	278.00	7.50	6.60	12.90	6.30	10.80	12.90	12.80	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 12:00 AM	260.00	5.20	12.70	12.60	0.00	12.60	12.10	12.70	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 12:15 AM	257.00	7.10	13.00	11.60	0.00	11.60	12.50	13.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 12:30 AM	269.00	5.40	13.20	10.00	0.00	10.00	12.40	13.20	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 12:45 AM	256.00	6.40	12.90	9.70	0.00	9.70	12.00	12.90	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 1:00 AM	257.00	6.10	12.90	9.10	0.00	9.10	12.50	12.90	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 1:15 AM	267.00	7.50	12.80	8.40	0.00	8.40	12.70	12.80	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 1:30 AM	276.00	4.50	7.00	12.90	5.90	8.70	12.90	13.10	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 1:45 AM	246.00	4.70	13.10	9.20	0.00	9.20	13.20	13.10	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 2:00 AM	249.00	4.60	13.40	9.70	0.00	9.70	14.20	13.40	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 2:15 AM	255.00	5.30	13.30	0.00	0.00	0.00	14.20	13.30	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 2:30 AM	251.00	5.10	13.40	11.20	0.00	11.20	14.80	13.40	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 2:45 AM	244.00	4.60	13.50	11.30	0.00	11.30	14.10	13.50	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 3:00 AM	253.00	6.50	13.60	11.00	0.00	11.00	13.70	13.60	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 3:15 AM	257.00	6.20	13.20	10.50	0.00	10.50	13.80	13.20	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 3:30 AM	260.00	6.60	13.40	10.50	0.00	10.50	13.80	13.40	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 3:45 AM	259.00	5.60	13.30	9.90	0.00	9.90	13.90	13.30	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 4:00 AM	265.00	5.90	13.10	10.20	0.00	10.20	14.20	13.10	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 4:15 AM	260.00	6.50	13.10	10.30	0.00	10.30	14.40	13.10	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 4:30 AM	258.00	4.70	13.60	10.80	0.00	10.80	14.40	13.60	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 4:45 AM	250.00	5.60	13.50	11.10	0.00	11.10	15.70	13.50	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 5:00 AM	246.00	4.70	13.70	11.00	0.00	11.00	15.60	13.70	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 5:15 AM	251.00	4.70	13.50	11.70	0.00	11.70	15.60	13.50	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 5:30 AM	249.00	5.20	13.40	11.40	0.00	11.40	16.00	13.40	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 5:45 AM	252.00	4.70	13.30	10.80	0.00	10.80	15.90	13.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 6:00 AM	260.00	5.90	13.20	10.30	0.00	10.30	15.00	13.20	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 6:15 AM	258.00	6.30	12.80	10.90	0.00	10.90	15.50	12.80	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 6:30 AM	256.00	5.80	12.90	10.80	0.00	10.80	14.90	12.90	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 6:45 AM	253.00	6.10	12.60	10.70	0.00	10.70	14.50	12.60	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 7:00 AM	257.00	4.80	12.60	11.00	0.00	11.00	15.10	12.60	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 7:15 AM	250.00	4.70	13.20	11.50	0.00	11.50	14.60	13.20	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 7:30 AM	262.00	6.20	13.30	10.70	0.00	10.70	14.80	13.30	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 7:45 AM	256.00	5.10	13.00	10.70	0.00	10.70	14.50	13.00	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 8:00 AM	251.00	5.00	13.50	10.70	0.00	10.70	14.30	13.50	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 8:15 AM	245.00	5.80	14.20	10.50	0.00	10.50	16.50	14.20	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 8:30 AM	252.00	5.20	13.20	10.70	0.00	10.70	16.00	13.20	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 8:45 AM	256.00	4.80	13.10	11.70	0.00	11.70	16.20	13.10	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 9:00 AM	255.00	5.80	12.40	11.90	0.00	11.90	15.10	12.40	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 9:15 AM	255.00	7.60	12.20	13.30	1.10	13.30	14.40	12.20	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 9:30 AM	265.00	5.80	12.30	13.60	1.30	13.60	14.30	12.30	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 9:45 AM	255.00	7.00	12.40	16.90	4.50	16.90	14.40	12.40	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 10:00 AM	260.00	6.10	13.30	17.10	3.80	17.10	15.40	13.30	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 10:15 AM	256.00	5.90	12.30	12.80	0.50	12.80	14.20	12.30	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 10:30 AM	258.00	4.40	11.70	13.40	1.70	13.40	15.20	11.70	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 10:45 AM	269.00	5.70	11.30	13.40	2.10	13.40	13.00	11.30	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 11:00 AM	252.00	9.00	11.40	17.70	6.30	17.70	12.30	11.40	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 11:15 AM	256.00	7.00	11.20	15.70	4.50	15.70	12.30	11.20	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 11:30 AM	260.00	8.40	11.40	14.90	3.50	14.90	12.80	11.40	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 11:45 AM	263.00	7.90	11.20	15.60	4.40	15.60	12.10	11.20	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 12:00 PM	284.00	7.10	12.90	14.00	1.10	16.90	14.00	11.70	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 12:15 PM	250.00	8.00	10.70	15.60	4.90	15.60	12.60	10.70	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 12:30 PM	258.00	6.90	12.40	19.20	6.80	19.20	11.90	12.40	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 12:45 PM	263.00	6.90	12.40	16.20	3.80	16.20	15.10	12.40	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 1:00 PM	298.00	7.90	10.80	14.50	3.70	18.10	14.50	11.30	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 1:15 PM	285.00	7.10	10.10	13.90	3.80	16.80	13.90	11.30	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 1:30 PM	271.00	8.20	10.70	12.60	1.90	21.20	12.60	12.20	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 1:45 PM	275.00	7.50	11.30	12.60	1.30	18.30	12.60	12.40	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 2:00 PM	271.00	7.90	19.50	14.50	0.00	16.80	14.50	12.60	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 2:15 PM	286.00	7.80	12.30	17.60	5.30	17.80	17.60	13.30	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 2:30 PM	282.00	8.10	13.00	13.90	0.90	17.20	13.90	12.30	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 2:45 PM	272.00	5.30	12.30	13.60	1.30	0.00	13.60	12.00	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 3:00 PM	259.00	9.20	14.80	17.10	2.30	17.10	14.00	14.80	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 3:15 PM	270.00	6.10	14.60	13.60	0.00	25.80	13.60	13.10	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/20/14 3:30 PM	267.00	7.90	12.40	15.70	3.30													



US Army Corps of Engineers

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

Table with columns: Reading Time (EST), Wind Direction, Wind Speed, Particulates (ug/m3) [Upwind, Downwind, CDF Contribution, M1, M2, M3, M4], and Naphthalene (ug/m3) [Upwind, Downwind, CDF Contribution, M1, M2, M3, M4]. Rows represent hourly data from 11/20/14 11:45 PM to 11/22/14 12:45 AM.



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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
11/23/14 2:15 AM	190.00	5.40	24.70	16.50	0.00	16.50	23.70	24.70	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 2:30 AM	198.00	6.40	24.60	16.50	0.00	16.50	24.60	24.60	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 2:45 AM	186.00	5.10	24.30	16.20	0.00	16.20	23.40	24.30	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 3:00 AM	195.00	6.30	24.30	15.90	0.00	15.90	22.90	24.30	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 3:15 AM	188.00	5.40	23.70	15.80	0.00	15.80	22.10	23.70	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 3:30 AM	188.00	6.20	23.30	14.80	0.00	14.80	21.30	23.30	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 3:45 AM	186.00	6.20	23.10	14.80	0.00	14.80	21.20	23.10	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 4:00 AM	192.00	3.80	23.20	14.70	0.00	14.70	21.10	23.20	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 4:15 AM	182.00	4.80	22.10	14.30	0.00	14.30	20.60	22.10	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 4:30 AM	180.00	6.00	21.50	13.70	0.00	13.70	19.40	21.50	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 4:45 AM	183.00	6.10	19.70	13.50	0.00	13.50	17.90	19.70	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 5:00 AM	182.00	5.70	19.00	13.00	0.00	13.00	16.40	19.00	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 5:15 AM	180.00	4.90	17.70	13.00	0.00	13.00	15.90	17.70	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 5:30 AM	180.00	5.50	17.00	13.00	0.00	13.00	15.20	17.00	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 5:45 AM	188.00	6.50	15.90	13.10	0.00	13.10	14.80	15.90	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 6:00 AM	174.00	5.60	14.10	11.40	0.00	13.10	14.10	15.20	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 6:15 AM	178.00	5.50	13.90	11.70	0.00	0.00	13.90	15.00	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 6:30 AM	180.00	6.10	15.00	0.00	0.00	0.00	13.80	15.00	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 6:45 AM	195.00	7.10	15.20	13.30	0.00	13.30	13.90	15.20	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 7:00 AM	180.00	7.70	15.00	13.30	0.00	13.30	14.30	15.00	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 7:15 AM	177.00	6.50	14.30	11.00	0.00	13.70	14.30	14.80	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 7:30 AM	181.00	6.20	14.50	13.70	0.00	13.70	13.90	14.50	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 7:45 AM	177.00	6.10	13.30	11.40	0.00	13.10	13.30	14.20	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 8:00 AM	172.00	6.80	13.10	11.30	0.00	13.20	13.10	14.20	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 8:15 AM	176.00	7.80	13.40	11.20	0.00	13.40	13.40	14.10	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 8:30 AM	182.00	5.80	14.90	13.50	0.00	13.50	13.80	14.90	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 8:45 AM	186.00	6.10	14.90	13.40	0.00	13.40	13.90	14.90	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 9:00 AM	185.00	5.40	15.40	16.20	0.80	16.20	15.40	15.40	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 9:15 AM	180.00	4.90	19.50	15.20	0.00	15.20	16.10	19.50	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 9:30 AM	173.00	5.80	15.00	9.90	0.00	13.70	15.00	19.40	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 9:45 AM	173.00	5.50	14.50	9.20	0.00	13.30	14.50	16.60	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 10:00 AM	180.00	5.80	17.20	13.00	0.00	13.00	14.60	17.20	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 10:15 AM	171.00	6.40	14.60	10.70	0.00	12.80	14.60	17.30	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 10:30 AM	176.00	6.40	14.30	10.10	0.00	13.00	14.30	16.40	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 10:45 AM	183.00	6.00	16.10	12.80	0.00	12.80	14.20	16.10	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 11:00 AM	168.00	5.20	13.80	9.10	0.00	12.60	13.80	16.40	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 11:15 AM	162.00	5.20	13.70	8.90	0.00	12.70	13.70	16.20	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 11:30 AM	175.00	5.50	13.60	8.80	0.00	12.40	13.60	16.40	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 11:45 AM	169.00	5.50	13.60	9.00	0.00	12.40	13.60	16.90	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 12:00 PM	176.00	4.50	14.20	8.70	0.00	12.70	14.20	0.00	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 12:15 PM	172.00	5.00	14.10	8.40	0.00	12.70	14.10	16.80	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 12:30 PM	157.00	5.40	14.00	8.50	0.00	12.60	14.00	17.20	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 12:45 PM	164.00	4.30	14.90	8.50	0.00	12.50	14.90	17.60	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 1:00 PM	173.00	4.50	15.40	8.30	0.00	12.50	15.40	18.40	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 1:15 PM	174.00	4.40	15.20	8.10	0.00	12.40	15.20	18.70	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 1:30 PM	168.00	5.40	16.00	7.80	0.00	12.90	16.00	20.10	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 1:45 PM	145.00	6.20	16.70	7.20	0.00	12.70	16.70	20.30	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 2:00 PM	154.00	4.30	16.40	7.10	0.00	14.20	16.40	19.80	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 2:15 PM	149.00	4.30	17.60	8.60	0.00	13.40	17.60	20.10	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 2:30 PM	165.00	3.50	19.60	9.50	0.00	13.40	19.60	18.90	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 2:45 PM	158.00	3.80	16.80	9.30	0.00	14.30	16.80	19.00	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 3:00 PM	144.00	3.60	20.80	9.90	0.00	13.90	20.80	20.50	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 3:15 PM	146.00	3.90	20.00	8.90	0.00	14.00	20.00	23.70	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 3:30 PM	145.00	5.50	20.80	8.40	0.00	13.40	20.80	24.20	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 3:45 PM	152.00	3.10	22.70	7.30	0.00	12.90	22.70	25.40	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 4:00 PM	154.00	3.50	23.00	7.10	0.00	13.30	23.00	25.40	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 4:15 PM	154.00	3.50	23.50	6.90	0.00	12.60	23.50	28.10	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 4:30 PM	149.00	3.60	21.30	6.60	0.00	12.20	21.30	26.30	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 4:45 PM	145.00	5.40	21.40	6.30	0.00	11.20	21.40	25.50	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 5:00 PM	152.00	4.80	20.30	5.60	0.00	10.30	20.30	23.60	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 5:15 PM	149.00	4.30	17.50	5.20	0.00	10.10	17.50	23.20	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 5:30 PM	139.00	4.30	16.80	5.60	0.00	8.40	16.80	21.20	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 5:45 PM	133.00	5.90	16.20	5.60	0.00	8.40	16.20	21.20	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 6:00 PM	139.00	5.30	12.10	4.30	0.00	6.90	12.10	17.40	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 6:15 PM	143.00	4.20	12.20	4.20	0.00	6.50	12.20	17.60	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 6:30 PM	132.00	4.50	13.00	3.90	0.00	6.20	13.00	18.80	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 6:45 PM	148.00	4.80	12.50	3.80	0.00	5.80	12.50	19.20	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 7:00 PM	142.00	3.90	12.80	3.70	0.00	6.10	12.80	19.30	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/23/14 7:15 PM	133.00	4.60	13.50	3.90	0.00	6.00	13.50											



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November 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
11/24/14 3:30 AM	226.00	5.60	7.50	3.30	0.00	3.30	4.80	7.50	2.50	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 3:45 AM	223.00	3.20	7.30	3.40	0.00	3.40	5.30	7.30	2.50	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 4:00 AM	214.00	4.30	7.50	3.50	0.00	3.50	5.50	7.50	2.50	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 4:15 AM	230.00	6.10	8.30	3.80	0.00	3.80	7.00	8.30	3.20	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 4:30 AM	223.00	3.80	8.50	4.30	0.00	4.30	7.30	8.50	3.30	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 4:45 AM	208.00	3.60	8.10	3.90	0.00	3.90	6.60	8.10	3.20	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 5:00 AM	203.00	3.70	7.60	3.90	0.00	3.90	5.60	7.60	3.10	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 5:15 AM	207.00	3.20	7.30	3.90	0.00	3.90	5.20	7.30	2.80	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 5:30 AM	211.00	2.50	7.20	3.90	0.00	3.90	4.70	7.20	2.80	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 5:45 AM	221.00	2.80	7.30	3.60	0.00	3.60	4.80	7.30	2.80	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 6:00 AM	214.00	4.00	7.30	3.60	0.00	3.60	4.90	7.30	2.80	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 6:15 AM	221.00	2.50	7.20	3.60	0.00	3.60	5.00	7.20	2.60	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 6:30 AM	207.00	3.10	7.50	3.60	0.00	3.60	5.20	7.50	2.60	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 6:45 AM	219.00	2.70	8.50	4.60	0.00	4.60	6.60	8.50	3.30	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 7:00 AM	226.00	3.00	8.50	4.60	0.00	4.60	6.60	8.50	3.30	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 7:15 AM	207.00	2.70	9.20	5.70	0.00	5.70	8.30	9.20	4.20	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 7:30 AM	228.00	2.40	9.40	5.70	0.00	5.70	8.90	9.40	4.20	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 7:45 AM	199.00	2.50	9.30	6.30	0.00	6.30	9.80	9.30	4.80	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 8:00 AM	190.00	3.30	8.80	6.60	0.00	6.60	8.20	8.80	4.30	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 8:15 AM	215.00	3.30	9.20	6.90	0.00	6.90	8.60	9.20	4.50	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 8:30 AM	225.00	4.20	8.60	5.80	0.00	5.80	8.80	8.60	4.10	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 8:45 AM	247.00	6.80	8.00	5.00	0.00	5.00	7.90	8.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 9:00 AM	241.00	9.30	4.70	3.70	0.00	3.70	3.10	4.70	2.40	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 9:15 AM	259.00	9.70	4.30	3.70	0.00	3.70	3.10	4.30	2.70	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 9:30 AM	248.00	10.80	3.40	3.10	0.00	3.10	2.00	3.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 9:45 AM	259.00	8.10	3.10	0.00	0.00	0.00	2.00	3.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 10:00 AM	252.00	9.60	2.60	2.80	0.20	2.80	1.80	2.60	3.70	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 10:15 AM	261.00	9.40	2.50	2.80	0.30	2.80	2.20	2.50	4.40	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 10:30 AM	243.00	10.20	2.50	2.90	0.40	2.90	2.00	2.50	4.70	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 10:45 AM	241.00	10.00	2.40	2.80	0.40	2.80	1.90	2.40	4.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 11:00 AM	237.00	9.90	2.10	2.60	0.50	2.60	1.60	2.10	4.70	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 11:15 AM	235.00	12.10	2.10	2.60	0.50	2.60	1.70	2.10	4.80	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 11:30 AM	242.00	13.00	2.70	4.60	1.90	4.60	4.00	2.70	9.00	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 11:45 AM	234.00	9.30	2.80	3.80	1.00	3.80	4.10	2.80	7.40	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 12:00 PM	242.00	8.70	2.70	3.60	0.90	3.60	4.00	2.70	8.80	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 12:15 PM	245.00	12.40	3.40	6.50	3.10	6.50	4.70	3.40	13.30	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 12:30 PM	237.00	11.10	4.00	6.20	2.20	6.20	5.40	4.00	13.40	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 12:45 PM	235.00	9.50	3.90	6.20	2.30	6.20	5.40	3.90	13.40	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 1:00 PM	237.00	8.90	4.00	6.80	2.80	6.80	5.50	4.00	14.60	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 1:15 PM	236.00	9.70	4.40	6.80	2.40	6.80	5.50	4.40	16.10	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 1:30 PM	234.00	9.30	3.50	5.70	2.20	5.70	5.60	3.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 1:45 PM	232.00	13.00	3.40	4.00	0.60	4.00	5.50	3.40	10.10	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 2:00 PM	244.00	10.80	3.60	4.00	0.40	4.00	5.90	3.60	12.70	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 2:15 PM	238.00	11.40	3.80	0.00	0.00	0.00	5.80	3.80	13.70	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 2:30 PM	235.00	9.30	3.50	6.40	2.90	6.40	5.00	3.50	9.50	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 2:45 PM	231.00	10.20	3.30	8.20	4.90	8.20	4.80	3.30	10.20	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 3:00 PM	243.00	12.90	3.20	0.00	0.00	0.00	3.20	3.20	10.00	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 3:15 PM	227.00	10.60	4.10	9.90	5.80	9.90	3.30	4.10	14.00	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 3:30 PM	228.00	11.20	3.40	9.20	5.80	9.20	2.90	3.40	8.80	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 3:45 PM	233.00	11.10	3.20	7.00	3.80	7.00	2.00	3.20	7.00	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 4:00 PM	237.00	10.40	3.30	8.30	5.00	8.30	1.80	3.30	7.20	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 4:15 PM	236.00	9.10	4.50	0.00	0.00	0.00	3.50	4.50	11.70	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 4:30 PM	233.00	7.30	4.30	0.00	0.00	0.00	3.10	4.30	13.40	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 4:45 PM	242.00	11.50	3.70	7.70	4.00	7.70	3.10	3.70	10.50	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 5:00 PM	243.00	12.60	3.70	7.50	3.80	7.50	2.60	3.70	10.00	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 5:15 PM	232.00	8.60	3.20	6.10	2.90	6.10	2.10	3.20	6.50	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 5:30 PM	246.00	11.80	2.60	5.40	2.80	5.40	1.80	2.60	7.40	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 5:45 PM	242.00	9.40	4.20	8.30	4.10	8.30	3.10	4.20	10.00	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 6:00 PM	242.00	12.40	3.90	6.80	2.90	6.80	2.60	3.90	7.70	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 6:15 PM	237.00	8.30	4.90	8.40	3.50	8.40	2.10	4.90	13.20	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 6:30 PM	236.00	9.60	5.20	8.80	3.60	8.80	1.90	5.20	13.40	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 6:45 PM	241.00	11.90	3.80	6.80	3.00	6.80	1.60	3.80	6.70	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 7:00 PM	242.00	9.40	4.60	7.20	2.60	7.20	1.80	4.60	8.60	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 7:15 PM	241.00	10.00	5.00	7.00	2.00	7.00	2.10	5.00	8.10	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 7:30 PM	242.00	11.20	6.30	8.10	1.80	8.10	2.40	6.30	11.70	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 7:45 PM	236.00	9.40	7.00	7.50	0.50	7.50	3.00	7.00	10.30	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 8:00 PM	241.00	11.60	6.30	8.30	2.00	8.30	3.20	6.30	10.80	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 8:15 PM	245.00	12.30	6.90	7.10	0.20	7.10	4.00	6.90	8.10	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 8:30 PM	246.00	12.90	6.50	7.40	0.90	7.40	3.50	6.50	7.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 8:45 PM	242.00	11.70	5.60	6.90	1.30	6.90	3.10	5.60	7.50	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 9:00 PM	249.00	9.30	5.70	7.70	2.00	7.70	3.30	5.70	7.50	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 9:15 PM	240.00	9.10	5.70	8.80	3.10	8.80	3.60	5.70	7.50	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 9:30 PM	253.00	8.20	6.00	9.40	3.40	9.40	3.80	6.00	7.30	0.00	0.00	0.00	0.00	0.00	0.00	
11/24/14 9:45 PM	252.00	9.70	6.50	10.40	3.90	10.40	4.10	6.50	7.70	0.00	0.00	0.00	0.00	0.00	0.00	
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US Army Corps
of Engineers®

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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
11/25/14 4:45 AM	278.00	8.00	5.70	7.20	1.50	10.40	7.20	8.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 5:00 AM	260.00	7.90	7.10	9.80	2.70	9.80	6.60	7.10	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 5:15 AM	268.00	5.20	7.00	9.70	2.70	9.70	6.30	7.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 5:30 AM	279.00	7.00	5.20	6.80	1.60	10.80	6.80	7.50	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 5:45 AM	261.00	6.70	7.80	10.40	2.60	10.40	7.40	7.80	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 6:00 AM	277.00	5.40	5.40	7.90	2.50	10.30	7.90	7.90	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 6:15 AM	279.00	6.30	5.40	8.00	2.60	10.00	8.00	8.10	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 6:30 AM	270.00	7.20	5.70	7.90	2.20	0.00	7.90	7.90	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 6:45 AM	271.00	4.60	4.90	7.60	2.70	7.00	7.60	7.80	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 7:00 AM	263.00	5.40	8.20	6.90	0.00	6.90	8.20	8.20	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 7:15 AM	265.00	5.90	8.50	6.00	0.00	6.00	7.80	8.50	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 7:30 AM	266.00	5.00	8.50	5.50	0.00	5.50	7.80	8.50	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 7:45 AM	274.00	6.90	5.50	9.60	4.10	6.00	9.60	8.80	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 8:00 AM	260.00	6.00	8.90	6.30	0.00	6.30	8.80	8.90	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 8:15 AM	257.00	5.90	8.80	7.00	0.00	7.00	8.80	8.80	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 8:30 AM	268.00	6.50	8.90	7.30	0.00	7.30	9.30	8.90	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 8:45 AM	264.00	5.20	9.00	7.60	0.00	7.60	9.40	9.00	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 9:00 AM	280.00	5.70	5.60	10.00	4.40	7.60	10.00	9.30	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 9:15 AM	267.00	4.70	9.90	7.20	0.00	7.20	10.10	9.90	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 9:30 AM	262.00	5.40	10.00	6.90	0.00	6.90	10.30	10.00	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 9:45 AM	275.00	4.50	6.10	9.80	3.70	7.40	9.80	9.60	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 10:00 AM	278.00	5.60	5.50	9.20	3.70	7.20	9.20	9.50	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 10:15 AM	260.00	3.90	9.70	0.00	0.00	0.00	9.10	9.70	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 10:30 AM	283.00	6.10	5.70	9.40	3.70	8.30	9.40	9.70	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 10:45 AM	260.00	4.70	9.30	8.90	0.00	8.90	8.70	9.30	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 11:00 AM	257.00	4.80	9.10	9.60	0.50	9.60	8.40	9.10	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 11:15 AM	253.00	6.00	9.10	9.30	0.20	9.30	8.80	9.10	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 11:30 AM	253.00	4.60	8.80	9.40	0.60	9.40	8.40	8.80	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 11:45 AM	240.00	4.90	8.20	8.00	0.00	8.00	7.40	8.20	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 12:00 PM	246.00	5.70	8.20	8.00	0.00	8.00	8.00	8.20	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 12:15 PM	234.00	4.30	8.00	7.10	0.00	7.10	7.70	8.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 12:30 PM	242.00	3.40	8.40	8.00	0.00	8.00	7.90	8.40	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 12:45 PM	239.00	5.50	9.10	0.00	0.00	0.00	8.50	9.10	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 1:00 PM	230.00	4.50	9.20	11.10	1.90	11.10	8.70	9.20	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 1:15 PM	244.00	5.80	9.40	10.60	1.20	10.60	8.90	9.40	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 1:30 PM	243.00	5.90	9.60	11.30	1.70	11.30	9.70	9.60	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 1:45 PM	229.00	6.00	8.60	11.00	2.40	11.00	8.50	8.60	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 2:00 PM	223.00	5.10	8.60	10.50	1.90	10.50	7.60	8.60	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 2:15 PM	232.00	6.10	8.70	10.30	1.60	10.30	7.90	8.70	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 2:30 PM	222.00	5.50	9.70	11.40	1.70	11.40	9.10	9.70	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 2:45 PM	209.00	5.10	10.80	12.00	1.20	12.00	11.30	10.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 3:00 PM	227.00	4.30	10.50	12.30	1.80	12.30	11.30	10.50	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 3:15 PM	226.00	4.80	10.40	11.60	1.20	11.60	11.20	10.40	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 3:30 PM	240.00	5.80	10.80	10.90	0.10	10.90	11.40	10.80	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 3:45 PM	242.00	6.40	10.30	9.80	0.00	9.80	10.40	10.30	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 4:00 PM	232.00	4.80	10.20	10.00	0.00	10.00	10.70	10.20	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 4:15 PM	253.00	4.80	10.90	10.40	0.00	10.40	11.00	10.90	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 4:30 PM	234.00	5.10	11.50	11.30	0.00	11.30	12.20	11.50	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 4:45 PM	255.00	3.50	11.70	11.80	0.10	11.80	12.90	11.70	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 5:00 PM	243.00	4.30	12.10	12.00	0.00	12.00	13.10	12.10	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 5:15 PM	224.00	4.10	13.40	0.00	0.00	0.00	13.60	13.40	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 5:30 PM	267.00	2.60	13.40	11.40	0.00	11.40	15.60	13.40	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 5:45 PM	256.00	4.00	13.00	9.90	0.00	9.90	15.00	13.00	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 6:00 PM	239.00	2.70	12.30	9.70	0.00	9.70	13.80	12.30	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 6:15 PM	228.00	2.90	12.90	9.90	0.00	9.90	14.70	12.90	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 6:30 PM	243.00	2.00	13.20	10.10	0.00	10.10	14.70	13.20	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 6:45 PM	265.00	2.40	12.10	9.30	0.00	9.30	12.10	12.10	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 7:00 PM	250.00	2.90	13.00	10.80	0.00	10.80	12.90	13.00	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 7:15 PM	222.00	2.80	14.00	0.00	0.00	0.00	13.40	14.00	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 7:30 PM	216.00	3.10	15.50	0.00	0.00	0.00	14.80	15.50	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 7:45 PM	238.00	2.60	16.10	12.00	0.00	12.00	16.20	16.10	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 8:00 PM	253.00	2.20	16.40	12.70	0.00	12.70	16.60	16.40	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 8:15 PM	238.00	2.30	16.50	12.70	0.00	12.70	17.20	16.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 8:30 PM	241.00	1.80	17.60	13.50	0.00	13.50	18.70	17.60	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 8:45 PM	202.00	1.70	17.50	14.10	0.00	14.10	19.00	17.50	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 9:00 PM	205.00	1.40	18.80	16.10	0.00	16.10	21.20	18.80	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 9:15 PM	202.00	2.10	20.50	17.00	0.00	17.00	21.40	20.50	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 9:30 PM	196.00	3.10	20.40	17.20	0.00	17.20	22.20	20.40	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 9:45 PM	210.00	2.90	19.30	15.90	0.00	15.90	21.60	19.30	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/25/14 10:00 PM	196.00	3.40	18.10	13.90														



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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)								Naphthalene (µg/m³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
11/27/14 7:30 AM	317.00	3.30	15.80	18.90	3.10	15.20	18.90	18.40	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 7:45 AM	296.00	3.40	17.20	18.50	1.30	14.00	18.50	20.00	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 8:00 AM	289.00	3.20	17.60	21.00	3.40	14.80	21.00	19.30	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 8:15 AM	293.00	3.60	19.80	23.10	3.30	14.80	23.10	20.30	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 8:30 AM	287.00	5.10	22.20	26.90	4.70	16.30	26.90	24.80	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 8:45 AM	289.00	4.90	22.70	27.70	5.00	16.70	27.70	25.10	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 9:00 AM	294.00	5.10	22.30	27.20	4.90	16.80	27.20	24.70	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 9:15 AM	296.00	4.50	22.10	27.30	5.20	17.80	27.30	24.90	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 9:30 AM	305.00	3.80	20.30	25.70	5.40	17.80	25.70	24.00	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 9:45 AM	299.00	5.60	19.00	24.80	5.80	0.00	24.80	22.10	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 10:00 AM	288.00	5.10	19.00	22.20	3.20	15.90	22.20	21.00	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 10:15 AM	308.00	5.10	16.50	18.90	2.40	13.10	18.90	18.30	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 11:30 AM	299.00	5.10	8.10	10.10	2.00	7.30	10.10	10.30	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 11:45 AM	305.00	4.80	7.80	9.50	1.70	7.20	9.50	10.20	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 12:00 PM	308.00	5.20	7.60	9.20	1.60	7.60	9.20	10.00	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 12:15 PM	276.00	5.20	6.90	7.90	1.00	6.90	7.90	10.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 12:30 PM	316.00	4.20	6.60	7.50	0.90	6.90	7.50	8.90	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 12:45 PM	291.00	5.70	5.40	6.60	1.20	6.30	6.60	7.80	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 1:00 PM	313.00	5.70	5.30	5.70	0.40	5.70	5.70	7.50	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 1:15 PM	316.00	6.10	5.00	5.80	0.80	5.60	5.80	7.20	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 1:30 PM	302.00	6.20	5.20	5.80	0.60	5.90	5.80	7.30	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 1:45 PM	312.00	5.40	5.30	5.90	0.60	5.70	5.90	7.40	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 2:00 PM	330.00	5.10	5.20	6.00	0.80	6.10	6.00	7.30	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 2:15 PM	315.00	4.10	5.30	6.10	0.80	6.30	6.10	7.60	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 2:30 PM	322.00	5.90	5.10	6.00	0.90	5.70	6.00	7.40	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 2:45 PM	331.00	5.50	5.10	6.00	0.90	5.70	6.00	7.30	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 3:00 PM	315.00	5.30	5.00	5.70	0.70	5.60	5.70	7.30	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 3:15 PM	307.00	6.10	5.10	6.10	1.00	5.60	6.10	7.40	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 3:30 PM	311.00	6.30	5.10	6.00	0.90	5.40	6.00	7.30	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 3:45 PM	302.00	4.80	4.80	5.80	1.00	5.10	5.80	6.80	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 4:00 PM	293.00	3.70	4.50	5.40	0.90	4.90	5.40	6.50	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 4:15 PM	282.00	4.80	4.70	5.30	0.60	5.10	5.30	6.50	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 4:30 PM	330.00	4.10	4.60	5.60	1.00	5.00	5.60	6.70	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 4:45 PM	340.00	4.60	4.00	4.80	0.80	4.40	4.80	6.30	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 5:00 PM	347.00	4.20	4.10	4.90	0.80	4.70	4.90	6.30	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 5:15 PM	343.00	3.60	4.50	5.50	1.00	5.00	5.50	6.40	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 5:30 PM	338.00	3.20	4.70	5.70	1.00	5.00	5.70	6.50	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 5:45 PM	326.00	2.90	4.30	5.90	1.60	4.80	5.90	6.60	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 6:00 PM	325.00	4.50	4.50	6.30	1.80	5.10	6.30	7.50	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 6:15 PM	311.00	3.50	4.90	6.30	1.40	5.20	6.30	7.20	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 6:30 PM	275.00	3.50	4.90	6.30	1.40	5.30	6.30	7.20	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 6:45 PM	342.00	2.60	4.90	6.80	1.90	5.70	6.80	8.50	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 7:00 PM	339.00	3.20	5.00	6.40	1.40	6.40	6.40	7.60	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 7:15 PM	332.00	3.20	5.20	6.70	1.50	6.80	6.70	8.30	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 7:30 PM	331.00	3.20	5.30	7.10	1.80	7.70	7.10	8.20	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 7:45 PM	315.00	2.20	5.20	6.90	1.70	7.30	6.90	8.20	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 8:00 PM	330.00	4.40	4.90	6.50	1.60	7.40	6.50	8.10	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 8:15 PM	335.00	3.30	4.90	6.70	1.80	8.00	6.70	8.30	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 8:30 PM	330.00	3.60	4.40	5.90	1.50	7.50	5.90	7.70	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 8:45 PM	336.00	2.90	4.40	5.70	1.30	7.80	5.70	7.50	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 9:00 PM	334.00	4.40	4.40	5.90	1.50	8.00	5.90	7.70	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 9:15 PM	321.00	4.30	4.10	5.10	1.00	7.30	5.10	7.30	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 9:30 PM	323.00	3.10	4.10	5.40	1.30	7.60	5.40	7.30	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 9:45 PM	333.00	3.70	4.20	5.40	1.20	7.40	5.40	7.40	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 10:00 PM	327.00	3.80	4.40	5.40	1.00	8.40	5.40	7.50	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 10:15 PM	320.00	4.30	4.60	5.50	0.90	8.80	5.50	7.40	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 10:30 PM	320.00	4.30	4.40	5.60	1.20	0.00	5.60	7.70	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 10:45 PM	314.00	3.60	4.50	5.70	1.20	8.00	5.70	7.90	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 11:00 PM	312.00	3.10	4.80	5.80	1.00	7.60	5.80	8.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 11:15 PM	306.00	3.30	4.90	6.10	1.20	7.00	6.10	8.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 11:30 PM	296.00	2.60	5.00	5.90	0.90	6.60	5.90	8.20	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/27/14 11:45 PM	278.00	2.40	5.10	6.20	1.10	5.50	6.20	8.30	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/28/14 12:00 AM	272.00	1.40	5.00	7.30	2.30	4.70	7.30	8.90	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/28/14 12:15 AM	277.00	2.30	5.00	6.40	1.40	4.60	6.40	8.50	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/28/14 12:30 AM	295.00	2.30	4.70	6.80	2.10	4.40	6.80	8.30	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/28/14 12:45 AM	308.00	2.50	4.90	7.10	2.20	4.70	7.10	8.60	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/28/14 1:00 AM	298.00	2.10	4.90	7.20	2.30	5.10	7.20	8.80	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/28/14 1:15 AM	269.00	1.40	8.90	5.10	0.00	5.10	7.20	8.90	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/28/14 1:30 AM	261.00	1.30	8.70	6.10	0.00	6.10	7.60	8.70	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/28/14 1:45 AM	257.00	1.20	8.50	7.40	0.00	7.40	7.50	8.50	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
11/28/14 9:45 AM	183.00	4.60	12.20	11.80	0.00	11.80	12.50	12.20	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 10:00 AM	184.00	4.80	11.90	11.80	0.00	11.80	11.30	11.90	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 10:15 AM	194.00	4.70	11.50	11.40	0.00	11.40	10.50	11.50	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 10:30 AM	190.00	5.00	10.70	10.90	0.20	10.90	9.70	10.70	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 10:45 AM	177.00	5.90	9.70	7.50	0.00	9.90	9.70	10.50	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 11:00 AM	182.00	7.10	9.90	9.10	0.00	9.10	8.90	9.90	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 11:15 AM	188.00	5.20	10.00	9.50	0.00	9.50	9.10	10.00	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 11:30 AM	167.00	7.10	9.00	7.00	0.00	9.20	9.00	9.70	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 11:45 AM	190.00	7.00	9.30	8.90	0.00	8.90	8.50	9.30	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 12:00 PM	175.00	7.40	8.50	6.40	0.00	8.90	8.50	9.20	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 12:15 PM	165.00	7.00	8.70	6.60	0.00	10.10	8.70	9.50	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 12:30 PM	174.00	6.30	8.60	6.90	0.00	10.00	8.60	9.20	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 12:45 PM	175.00	5.40	9.30	7.60	0.00	11.20	9.30	9.60	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 1:00 PM	165.00	6.00	10.40	7.80	0.00	12.40	10.40	10.50	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 1:15 PM	168.00	6.60	11.30	8.60	0.00	15.30	11.30	10.50	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 1:30 PM	144.00	6.50	11.90	9.20	0.00	15.70	11.90	11.10	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 1:45 PM	166.00	8.50	12.40	9.70	0.00	15.70	12.40	11.30	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 2:00 PM	189.00	7.10	10.70	14.90	4.20	14.90	12.50	10.70	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 2:15 PM	178.00	6.80	11.90	9.60	0.00	13.00	11.90	10.40	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 2:30 PM	173.00	7.20	11.70	9.00	0.00	11.70	11.70	10.10	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 2:45 PM	170.00	5.40	12.10	9.00	0.00	11.30	12.10	9.70	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 3:00 PM	180.00	5.70	10.30	12.50	2.20	12.50	11.50	10.30	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 3:15 PM	171.00	7.10	11.80	9.40	0.00	12.20	11.80	10.60	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 3:30 PM	162.00	7.70	11.80	10.20	0.00	12.10	11.80	11.00	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 3:45 PM	158.00	6.40	13.10	11.10	0.00	12.10	13.10	11.40	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 4:00 PM	175.00	7.40	13.30	11.20	0.00	11.30	13.30	11.90	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 4:15 PM	162.00	5.90	14.50	11.70	0.00	11.00	14.50	12.20	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 4:30 PM	171.00	5.80	15.80	12.30	0.00	10.60	15.80	12.70	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 4:45 PM	177.00	6.80	15.60	12.90	0.00	10.00	15.60	12.60	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 5:00 PM	166.00	4.40	16.70	13.40	0.00	10.50	16.70	13.40	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 5:15 PM	166.00	5.10	17.20	14.00	0.00	11.20	17.20	13.70	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 5:30 PM	169.00	4.30	17.90	14.70	0.00	11.80	17.90	14.50	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 5:45 PM	166.00	5.40	18.90	15.00	0.00	11.50	18.90	14.80	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 6:00 PM	163.00	5.30	19.80	15.40	0.00	11.80	19.80	15.30	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 6:15 PM	165.00	6.10	19.40	16.10	0.00	0.00	19.40	15.50	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 6:30 PM	172.00	6.40	19.50	16.30	0.00	0.00	19.50	15.80	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 6:45 PM	164.00	4.70	19.70	17.10	0.00	0.00	19.70	16.00	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 7:00 PM	173.00	4.90	19.70	17.00	0.00	11.10	19.70	16.10	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 7:15 PM	165.00	3.80	19.30	16.80	0.00	11.90	19.30	16.10	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 7:30 PM	157.00	3.80	19.10	17.30	0.00	12.40	19.10	16.30	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 7:45 PM	156.00	5.20	18.50	16.80	0.00	12.80	18.50	16.10	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 8:00 PM	162.00	5.80	18.20	16.80	0.00	12.60	18.20	16.30	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 8:15 PM	159.00	6.20	17.80	16.60	0.00	11.30	17.80	15.70	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 8:30 PM	157.00	5.40	18.10	16.30	0.00	0.00	18.10	16.10	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 8:45 PM	167.00	6.30	18.70	16.60	0.00	11.90	18.70	16.40	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 9:00 PM	163.00	6.80	19.50	17.30	0.00	12.40	19.50	16.90	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 9:15 PM	186.00	5.80	17.00	12.70	0.00	12.70	20.00	17.00	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 9:30 PM	178.00	6.10	20.40	19.40	0.00	12.70	20.40	18.10	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 9:45 PM	180.00	4.50	18.80	13.60	0.00	13.60	21.90	18.80	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 10:00 PM	183.00	5.30	19.20	12.90	0.00	12.90	21.40	19.20	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 10:15 PM	178.00	6.40	21.10	19.40	0.00	12.80	21.10	19.40	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 10:30 PM	192.00	4.70	19.00	12.90	0.00	12.90	21.10	19.00	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 10:45 PM	189.00	5.30	18.90	13.00	0.00	13.00	21.00	18.90	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 11:00 PM	173.00	4.90	20.30	19.20	0.00	13.50	20.30	19.20	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 11:15 PM	183.00	4.10	18.90	14.00	0.00	14.00	20.30	18.90	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 11:30 PM	164.00	3.80	20.00	18.80	0.00	14.10	20.00	19.10	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/14 11:45 PM	166.00	4.90	20.50	18.20	0.00	14.20	20.50	18.10	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/29/14 12:00 AM	166.00	4.00	19.80	17.90	0.00	13.60	19.80	18.30	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/29/14 12:15 AM	163.00	4.50	19.40	18.00	0.00	13.00	19.40	18.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/29/14 12:30 AM	166.00	5.10	19.30	17.50	0.00	12.80	19.30	18.00	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/29/14 12:45 AM	175.00	4.70	19.50	17.40	0.00	13.00	19.50	17.70	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/29/14 1:00 AM	162.00	4.30	19.60	17.40	0.00	13.20	19.60	17.60	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/29/14 1:15 AM	165.00	5.40	19.40	17.40	0.00	13.60	19.40	17.50	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/29/14 1:30 AM	166.00	5.10	19.00	17.30	0.00	13.90	19.00	17.50	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/29/14 1:45 AM	163.00	3.80	18.60	17.10	0.00	13.80	18.60	17.80	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/29/14 2:00 AM	160.00	4.80	19.30	16.70	0.00	13.60	19.30	17.30	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/29/14 2:15 AM	161.00	4.00	19.10	17.00	0.00	13.00	19.10	17.80	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/29/14 2:30 AM	164.00	5.00	18.00	17.00	0.00	13.10	18.00	17.30	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/29/14 2:45 AM	172.00	3.80	17.90	16.10	0.00	11.30										



**US Army Corps
of Engineers®**

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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)							Naphthalene (µg/m³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
11/29/14 11:00 AM	181.00	8.00	8.80	6.00	0.00	6.00	7.10	8.80	4.80	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 11:15 AM	189.00	8.60	8.70	5.40	0.00	5.40	7.00	8.70	4.10	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 11:30 AM	190.00	6.90	9.20	5.50	0.00	5.50	7.30	9.20	4.10	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 11:45 AM	193.00	5.40	8.80	5.70	0.00	5.70	6.90	8.80	3.60	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 12:00 PM	205.00	6.40	8.90	6.10	0.00	6.10	7.50	8.90	3.80	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 12:15 PM	196.00	9.60	8.90	6.00	0.00	6.00	7.70	8.90	4.10	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 12:30 PM	199.00	9.30	9.10	6.10	0.00	6.10	8.00	9.10	4.20	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 12:45 PM	192.00	9.40	9.30	6.00	0.00	6.00	8.10	9.30	4.10	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 1:00 PM	204.00	8.90	9.70	6.50	0.00	6.50	8.40	9.70	3.50	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 1:15 PM	201.00	7.90	10.60	6.60	0.00	6.60	8.80	10.60	3.50	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 1:30 PM	200.00	9.00	11.20	6.90	0.00	6.90	9.30	11.20	3.40	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 1:45 PM	208.00	6.10	11.00	7.30	0.00	7.30	9.70	11.00	3.40	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 2:00 PM	199.00	10.10	11.40	7.40	0.00	7.40	10.10	11.40	3.20	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 2:15 PM	197.00	8.10	12.10	7.40	0.00	7.40	10.40	12.10	3.00	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 2:30 PM	203.00	11.40	12.70	7.80	0.00	7.80	10.80	12.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 2:45 PM	195.00	6.70	12.70	8.20	0.00	8.20	11.10	12.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 3:00 PM	203.00	10.90	13.30	8.50	0.00	8.50	11.40	13.30	3.00	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 3:15 PM	206.00	7.70	13.70	8.10	0.00	8.10	11.70	13.70	3.20	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 3:30 PM	205.00	10.40	14.50	8.30	0.00	8.30	12.00	14.50	3.30	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 3:45 PM	205.00	8.70	14.90	8.40	0.00	8.40	13.00	14.90	3.10	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 4:00 PM	195.00	8.30	15.70	9.30	0.00	9.30	13.60	15.70	3.30	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 4:15 PM	200.00	7.00	16.00	9.70	0.00	9.70	14.30	16.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 4:30 PM	192.00	7.40	17.30	10.20	0.00	10.20	16.50	17.30	3.80	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 4:45 PM	196.00	8.20	19.10	11.90	0.00	11.90	19.10	19.10	4.50	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 5:00 PM	197.00	8.40	22.60	12.60	0.00	12.60	22.90	22.60	4.70	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 5:15 PM	195.00	7.70	26.20	14.40	0.00	14.40	27.40	26.20	4.30	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 5:30 PM	194.00	9.20	27.10	14.90	0.00	14.90	28.00	27.10	4.50	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 5:45 PM	193.00	9.90	29.10	15.00	0.00	15.00	29.70	29.10	5.20	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 6:00 PM	199.00	10.30	30.10	16.10	0.00	16.10	30.90	30.10	6.00	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 6:15 PM	199.00	8.10	30.20	15.40	0.00	15.40	30.40	30.20	6.10	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 6:30 PM	190.00	9.90	30.50	15.80	0.00	15.80	31.20	30.50	6.50	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 6:45 PM	205.00	10.20	30.20	16.00	0.00	16.00	32.00	30.20	7.60	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 7:00 PM	209.00	9.50	30.60	16.10	0.00	16.10	32.20	30.60	8.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 7:15 PM	203.00	8.00	30.40	16.20	0.00	16.20	31.10	30.40	9.00	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 7:30 PM	196.00	8.80	30.00	15.70	0.00	15.70	30.60	30.00	9.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 7:45 PM	210.00	6.70	29.90	16.70	0.00	16.70	31.00	29.90	10.40	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 8:00 PM	213.00	6.50	30.00	16.40	0.00	16.40	30.90	30.00	10.40	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 8:15 PM	207.00	7.20	29.90	16.40	0.00	16.40	30.30	29.90	10.50	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 8:30 PM	205.00	7.30	28.70	15.90	0.00	15.90	28.60	28.70	10.00	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 8:45 PM	204.00	6.40	28.70	16.00	0.00	16.00	28.40	28.70	9.70	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 9:00 PM	200.00	6.00	28.20	15.50	0.00	15.50	27.70	28.20	10.00	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 9:15 PM	192.00	6.20	28.30	15.80	0.00	15.80	27.80	28.30	9.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 9:30 PM	199.00	7.40	28.70	15.90	0.00	15.90	28.70	28.70	10.00	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 9:45 PM	190.00	5.20	28.50	16.40	0.00	16.40	28.60	28.50	10.70	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 10:00 PM	203.00	6.80	29.30	16.20	0.00	16.20	29.60	29.30	11.00	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 10:15 PM	192.00	7.10	29.70	16.60	0.00	16.60	29.50	29.70	11.00	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 10:30 PM	199.00	6.50	30.10	16.40	0.00	16.40	30.30	30.10	11.10	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 10:45 PM	203.00	7.30	30.50	16.10	0.00	16.10	29.80	30.50	11.00	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 11:00 PM	200.00	5.60	30.30	16.20	0.00	16.20	29.60	30.30	10.80	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 11:15 PM	197.00	6.30	30.80	16.70	0.00	16.70	29.60	30.80	11.00	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 11:30 PM	202.00	5.60	30.20	16.00	0.00	16.00	29.30	30.20	10.80	0.00	0.00	0.00	0.00	0.00	0.00	
11/29/14 11:45 AM	197.00	5.80	30.00	0.00	0.00	0.00	28.20	30.00	10.50	0.00	0.00	0.00	0.00	0.00	0.00	
11/30/14 12:00 AM	205.00	7.20	29.60	15.70	0.00	15.70	27.90	29.60	10.10	0.00	0.00	0.00	0.00	0.00	0.00	
11/30/14 12:15 AM	206.00	8.20	30.30	15.70	0.00	15.70	28.10	30.30	8.50	0.00	0.00	0.00	0.00	0.00	0.00	
11/30/14 12:30 AM	203.00	7.30	29.90	15.00	0.00	15.00	26.70	29.90	8.40	0.00	0.00	0.00	0.00	0.00	0.00	
11/30/14 12:45 AM	202.00	8.80	29.50	15.00	0.00	15.00	26.30	29.50	8.10	0.00	0.00	0.00	0.00	0.00	0.00	
11/30/14 1:00 AM	203.00	8.20	28.40	15.10	0.00	15.10	24.90	28.40	8.50	0.00	0.00	0.00	0.00	0.00	0.00	
11/30/14 1:15 AM	209.00	6.60	27.90	15.10	0.00	15.10	24.50	27.90	9.10	0.00	0.00	0.00	0.00	0.00	0.00	
11/30/14 1:30 AM	207.00	6.50	27.10	14.40	0.00	14.40	24.20	27.10	9.30	0.00	0.00	0.00	0.00	0.00	0.00	
11/30/14 1:45 AM	211.00	5.20	27.10	0.00	0.00	0.00	23.90	27.10	9.50	0.00	0.00	0.00	0.00	0.00	0.00	
11/30/14 2:00 AM	215.00	7.40	27.30	14.40	0.00	14.40	23.90	27.30	9.60	0.00	0.00	0.00	0.00	0.00	0.00	
11/30/14 2:15 AM	208.00	6.40	27.80	14.40	0.00	14.40	24.00	27.80	9.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/30/14 2:30 AM	209.00	6.90	27.80	14.50	0.00	14.50	24.50	27.80	9.90	0.00	0.00	0.00	0.00	0.00	0.00	
11/30/14 2:45 AM	200.00	5.20	27.50	14.50	0.00	14.50	24.50	27.50	10.40	0.00	0.00	0.00	0.00	0.00	0.00	
11/30/14 3:00 AM	208.00	5.50	26.50	13.80	0.00	13.80	23.00	26.50	10.30	0.00	0.00	0.00	0.00	0.00	0.00	
11/30/14 3:15 AM	202.00	6.00	25.70	13.40	0.00	13.40	22.50	25.70	10.20	0.00	0.00	0.00	0.00	0.00	0.00	
11/30/14 3:30 AM	201.00	6.40	25.40	13.50	0.00	13.50	22.30	25.40	10.10	0.00	0.00	0.00	0.00	0.00	0.00	
11/30/14 3:45 AM	210.00	5.50	24.00	13.20	0.00	13.20	21.80	24.00	10.20	0.00	0.00	0.00	0.00	0.00	0.00	
11/30/14 4:00 AM	206.00	4.80	23.10	13.00	0.00	13.00	21.20	23.10	10.40	0.00	0.00	0.00	0.00	0.00	0.00	
11/30/14 4:15 AM	199.00	4.70	23.10	12.50	0.00	12.50	20.50	23.10	10.10	0.00	0.00	0.00	0.00	0.00	0.00	
11/30/14 4:30 AM	201.00	5.50	23.00	12.50	0.00	12.50	20.30	23.00	9.60	0.00	0.00	0.00	0.00	0.00	0.00	
11/30/14 4:45 AM	201.00	5.20	22.40	12.40	0.00	12.40	19.60	22.40	9.10	0.00	0.00	0.00	0.00	0.00	0.00	
11/30/14 5:00 AM	211.00	5.00	21.70	11.90	0.00											



**US Army Corps
of Engineers®**

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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
11/30/14 12:15 PM	215.00	6.40	9.80	9.40	0.00	9.40	8.60	9.80	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 12:30 PM	225.00	5.10	9.40	10.40	1.00	10.40	9.20	9.40	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 12:45 PM	270.00	3.60	8.60	9.60	1.00	11.60	9.60	9.40	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 1:00 PM	259.00	4.80	9.50	12.00	2.50	12.00	11.20	9.50	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 1:15 PM	251.00	4.80	9.60	12.20	2.60	12.20	11.30	9.60	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 1:30 PM	261.00	6.40	10.00	13.30	3.30	13.30	12.10	10.00	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 1:45 PM	250.00	7.00	10.30	13.10	2.80	13.10	12.10	10.30	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 2:00 PM	331.00	5.30	10.70	11.80	1.10	12.70	11.80	9.90	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 2:15 PM	7.00	10.50	42.60	16.80	0.00	42.60	37.10	16.80	30.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 2:30 PM	7.00	8.70	49.40	23.80	0.00	49.40	40.20	23.80	43.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 2:45 PM	1.00	9.20	54.30	25.80	0.00	54.30	0.00	25.80	44.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 3:00 PM	359.00	8.30	43.30	47.00	3.70	46.60	47.00	27.70	43.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 3:15 PM	356.00	9.70	36.80	38.90	2.10	38.50	38.90	25.70	36.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 3:30 PM	3.00	9.20	29.80	23.80	0.00	29.80	33.50	23.80	36.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 3:45 PM	357.00	10.00	39.10	34.60	0.00	32.40	34.60	25.70	39.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 4:00 PM	357.00	9.60	40.30	34.20	0.00	30.40	34.20	26.80	40.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 4:15 PM	353.00	8.30	38.20	32.60	0.00	29.10	32.60	26.40	38.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 4:30 PM	353.00	7.90	35.50	30.90	0.00	26.10	30.90	25.70	35.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 4:45 PM	353.00	7.10	39.00	32.00	0.00	25.90	32.00	26.40	39.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 5:00 PM	354.00	8.70	39.90	33.30	0.00	28.60	33.30	27.50	39.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 5:15 PM	354.00	8.60	35.80	31.60	0.00	27.10	31.60	25.90	35.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 5:30 PM	356.00	9.00	34.30	29.60	0.00	26.10	29.60	25.40	34.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 5:45 PM	353.00	7.60	35.30	28.70	0.00	25.30	28.70	24.90	35.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 6:00 PM	355.00	6.70	33.80	28.00	0.00	24.10	28.00	24.40	33.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 6:15 PM	350.00	5.00	31.30	30.60	0.00	24.00	30.60	25.70	31.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 6:30 PM	344.00	3.90	30.10	31.40	1.30	23.30	31.40	25.70	30.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 6:45 PM	340.00	3.50	28.40	31.80	3.40	22.60	31.80	25.00	28.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 7:00 PM	326.00	3.60	25.30	29.60	4.30	21.80	29.60	23.30	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 7:15 PM	321.00	3.10	24.80	29.10	4.30	20.50	29.10	23.20	24.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 7:30 PM	312.00	3.60	24.10	28.30	4.20	18.90	28.30	22.90	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 7:45 PM	318.00	4.30	26.50	28.90	2.40	20.50	28.90	23.60	26.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 8:00 PM	316.00	3.30	30.10	33.60	3.50	23.30	33.60	27.10	30.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 8:15 PM	308.00	3.40	30.80	35.30	4.50	24.50	35.30	29.10	30.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 8:30 PM	326.00	3.00	27.70	33.90	6.20	23.40	33.90	27.50	27.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 8:45 PM	323.00	3.70	25.20	30.10	4.90	22.60	30.10	25.00	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 9:00 PM	327.00	3.50	24.40	28.30	3.90	21.50	28.30	23.60	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 9:15 PM	307.00	5.40	27.50	30.10	2.60	23.30	30.10	25.50	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 9:30 PM	330.00	4.70	26.40	29.10	2.70	22.00	29.10	24.70	26.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 9:45 PM	351.00	6.60	25.20	27.10	1.90	20.50	27.10	24.00	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 10:00 PM	356.00	5.50	25.40	27.90	2.50	21.50	27.90	25.20	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 10:15 PM	353.00	5.80	25.80	26.40	0.60	17.20	26.40	24.90	25.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 10:30 PM	349.00	5.90	24.60	28.00	3.40	19.70	28.00	25.60	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 10:45 PM	329.00	5.50	23.70	25.70	2.00	18.60	25.70	23.60	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 11:00 PM	341.00	5.00	21.50	23.40	1.90	17.60	23.40	21.20	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 11:15 PM	344.00	5.00	20.80	22.30	1.50	17.10	22.30	20.60	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 11:30 PM	347.00	5.50	18.40	19.00	0.60	16.20	19.00	18.30	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11/30/14 11:45 PM	358.00	8.30	14.80	14.90	0.10	13.80	14.90	15.40	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		