



**US Army Corps
of Engineers**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
2-15-13 to 2-21-13

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	
2/15/13 12:00 AM	256.00	1.90	4.30	18.90	14.60	18.90	2.60	4.30	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 12:15 AM	262.00	2.20	6.00	19.10	13.10	19.10	4.60	6.00	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 12:30 AM	264.00	3.00	6.00	0.00	0.00	0.00	4.60	6.00	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 12:45 AM	263.00	2.50	5.50	19.20	13.70	19.20	4.00	5.50	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 1:00 AM	286.00	2.10	5.50	0.00	0.00	0.00	3.80	5.50	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 1:15 AM	287.00	2.10	9.00	4.80	0.00	0.00	4.80	6.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 1:30 AM	275.00	1.60	9.60	5.30	0.00	19.30	5.30	6.60	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 1:45 AM	267.00	1.90	11.30	5.10	0.00	19.30	5.10	6.20	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 2:00 AM	278.00	2.00	6.40	19.30	12.90	19.30	5.10	6.40	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 2:15 AM	264.00	2.30	9.40	5.30	0.00	19.30	5.30	6.60	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 2:30 AM	256.00	2.60	6.90	19.30	12.40	19.30	5.50	6.90	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 2:45 AM	258.00	2.30	7.00	0.00	0.00	0.00	5.50	7.00	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 3:00 AM	274.00	2.00	6.20	0.00	0.00	0.00	5.00	6.20	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 3:15 AM	270.00	2.50	8.60	4.40	0.00	0.00	4.40	6.20	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 3:30 AM	293.00	2.50	8.30	5.20	0.00	0.00	5.20	6.00	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 3:45 AM	307.00	3.30	8.20	5.10	0.00	19.20	5.10	6.80	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 4:00 AM	341.00	1.90	9.00	5.10	0.00	19.10	5.10	6.10	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 4:15 AM	356.00	3.40	7.10	4.90	0.00	19.00	4.90	5.50	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 4:30 AM	343.00	4.10	7.20	3.90	0.00	19.10	3.90	4.70	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 4:45 AM	356.00	3.90	6.20	3.50	0.00	18.90	3.50	4.70	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 5:00 AM	340.00	4.00	7.00	4.00	0.00	18.90	4.00	4.10	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 5:15 AM	348.00	4.00	6.80	4.40	0.00	18.90	4.40	5.10	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 5:30 AM	359.00	5.10	7.60	5.30	0.00	18.90	5.30	6.30	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 5:45 AM	338.00	4.70	9.40	6.40	0.00	18.90	6.40	6.50	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 6:00 AM	8.00	5.80	9.10	5.90	0.00	0.00	5.90	6.30	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 6:15 AM	6.00	8.80	0.00	6.30	0.00	0.00	5.90	6.30	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 6:30 AM	4.00	8.20	0.00	7.40	0.00	0.00	6.60	7.40	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 6:45 AM	9.00	10.40	19.00	4.40	0.00	19.00	3.00	4.40	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 7:00 AM	9.00	9.40	0.00	5.60	0.00	0.00	5.20	5.60	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 7:15 AM	8.00	9.90	0.00	6.50	0.00	0.00	4.80	6.50	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 7:30 AM	7.00	10.10	19.20	5.70	0.00	19.20	8.40	5.70	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 7:45 AM	12.00	9.60	19.10	5.00	0.00	19.10	6.50	5.00	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 8:00 AM	10.00	8.90	19.20	8.90	0.00	19.20	12.10	8.90	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 8:15 AM	8.00	8.70	19.20	7.30	0.00	19.20	9.70	7.30	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 8:30 AM	6.00	7.90	19.20	8.60	0.00	19.20	11.10	8.60	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 8:45 AM	4.00	6.40	19.20	8.60	0.00	19.20	10.50	8.60	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 9:00 AM	13.00	9.00	19.20	8.70	0.00	19.20	10.00	8.70	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 9:15 AM	11.00	8.60	19.20	7.40	0.00	19.20	11.10	7.40	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 9:30 AM	351.00	5.20	19.20	7.70	0.00	19.20	12.40	7.70	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 9:45 AM	345.00	5.80	8.80	13.90	5.10	19.30	13.90	9.80	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 10:00 AM	341.00	6.40	8.90	14.40	5.50	19.40	14.40	10.00	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 10:15 AM	349.00	5.20	10.20	17.10	6.90	19.40	17.10	10.10	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 10:30 AM	10.00	7.60	10.30	20.90	10.60	19.30	20.90	10.40	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 10:45 AM	11.00	6.20	19.20	9.90	0.00	19.20	20.80	9.90	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 11:00 AM	10.00	9.00	19.20	8.10	0.00	19.20	17.40	8.10	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 11:15 AM	8.00	7.70	18.90	6.70	0.00	18.90	13.20	6.70	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 11:30 AM	13.00	7.00	19.20	4.60	0.00	19.20	8.70	4.60	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 11:45 AM	15.00	6.50	18.90	4.00	0.00	18.90	8.00	4.00	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 12:00 PM	20.00	4.00	19.00	4.90	0.00	19.00	9.70	4.90	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 12:15 PM	3.00	5.00	19.00	5.40	0.00	19.00	9.30	5.40	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 12:30 PM	11.00	4.60	18.90	5.10	0.00	18.90	9.40	5.10	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 12:45 PM	3.00	5.30	18.90	5.10	0.00	18.90	9.00	5.10	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 1:00 PM	14.00	5.20	18.90	4.60	0.00	18.90	8.40	4.60	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 1:15 PM	8.00	3.90	18.90	5.30	0.00	18.90	8.50	5.30	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 1:30 PM	9.00	4.80	18.90	6.20	0.00	18.90	12.50	6.20	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 1:45 PM	29.00	4.70	0.00	5.70	0.00	0.00	12.00	5.70	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 2:00 PM	39.00	5.30	0.00	6.30	0.00	0.00	7.30	6.30	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 2:15 PM	29.00	5.70	0.00	6.30	0.00	0.00	7.30	6.30	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 2:30 PM	29.00	5.90	19.50	8.20	0.00	19.50	9.40	8.20	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 2:45 PM	28.00	5.40	19.50	7.90	0.00	19.50	9.30	7.90	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 3:00 PM	32.00	4.30	19.50	8.50	0.00	19.50	9.70	8.50	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 3:15 PM	30.00	4.30	19.50	7.60	0.00	19.50	12.50	7.60	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 3:30 PM	75.00	3.00	19.50	8.80	0.00	19.50	31.50	8.80	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 3:45 PM	50.00	2.90	0.00	8.30	0.00	0.00	8.30	8.30	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 4:00 PM	48.00	3.30	19.30	8.40	0.00	19.30	8.40	8.40	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 4:15 PM	64.00	2.70	19.50	10.10	0.00	19.50	12.10	10.10	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/13 4:30 PM	102.00	2.70	19.50	12.30	0.00	19.50	17.40	12.30	8.80	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		
2/15/13 11:45 PM	322.00	5.90	12.00	16.20	4.20	19.20	16.20	9.70	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 12:00 AM	325.00	6.10	11.00	14.60	3.60	19.20	14.60	8.80	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 12:15 AM	327.00	3.80	14.90	17.30	2.40	19.30	17.30	10.60	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 12:30 AM	317.00	5.10	13.80	16.00	2.20	19.20	16.00	11.20	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 12:45 AM	323.00	5.40	16.10	15.90	0.00	19.40	15.90	12.00	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 1:00 AM	324.00	2.90	16.10	16.10	0.00	19.40	16.10	9.80	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 1:15 AM	332.00	4.10	17.00	17.30	0.30	19.30	17.30	12.10	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 1:30 AM	342.00	4.30	16.10	17.50	1.40	19.30	17.50	11.90	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 1:45 AM	334.00	5.30	16.40	16.90	0.50	19.40	16.90	12.60	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 2:00 AM	327.00	4.10	17.70	18.70	1.00	19.40	18.70	14.20	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 2:15 AM	331.00	4.10	17.60	22.20	4.60	19.50	22.20	14.90	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 2:30 AM	330.00	4.20	18.10	25.00	6.90	19.50	25.00	14.30	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 2:45 AM	327.00	4.80	18.40	26.60	8.20	19.50	26.60	15.80	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 3:00 AM	344.00	4.30	18.90	27.90	9.00	19.50	27.90	16.60	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 3:15 AM	351.00	5.30	18.70	26.00	7.30	19.60	26.00	16.70	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 3:30 AM	345.00	4.40	20.00	25.20	5.20	19.70	25.20	16.70	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 3:45 AM	356.00	4.70	15.70	20.70	5.00	19.50	20.70	13.90	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 4:00 AM	333.00	5.10	15.00	19.20	4.20	19.40	19.20	13.10	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 4:15 AM	325.00	5.10	15.80	19.60	3.80	19.80	19.60	13.30	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 4:30 AM	328.00	5.60	14.30	17.10	2.80	19.80	17.10	13.50	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 4:45 AM	330.00	4.80	15.10	18.50	3.40	19.90	18.50	14.10	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 5:00 AM	322.00	3.30	16.00	19.10	3.10	20.00	19.10	14.30	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 5:15 AM	329.00	4.80	17.10	19.00	1.90	20.00	19.00	14.10	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 5:30 AM	329.00	3.90	16.00	17.30	1.30	20.00	17.30	13.60	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 5:45 AM	329.00	4.90	15.70	18.10	2.40	20.00	18.10	15.00	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 6:00 AM	333.00	3.70	15.80	16.60	0.80	20.00	16.60	13.40	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 6:15 AM	328.00	5.70	18.60	17.70	0.00	20.00	17.70	13.70	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 6:30 AM	325.00	3.90	16.50	16.90	0.40	20.10	16.90	14.60	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 6:45 AM	318.00	4.10	16.60	16.30	0.00	20.10	16.30	14.70	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 7:00 AM	318.00	4.70	19.60	18.20	0.00	20.10	18.20	16.80	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 7:15 AM	306.00	3.40	21.50	17.10	0.00	20.20	17.10	14.10	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 7:30 AM	308.00	4.20	21.50	16.00	0.00	20.40	16.00	15.50	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 7:45 AM	313.00	4.00	21.10	16.80	0.00	20.30	16.80	15.30	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 8:00 AM	321.00	3.80	21.40	17.00	0.00	20.30	17.00	16.00	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 8:15 AM	326.00	3.60	17.90	18.00	0.10	20.20	18.00	16.40	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 8:30 AM	333.00	3.00	19.30	18.00	0.00	20.20	18.30	15.00	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 8:45 AM	332.00	3.50	21.00	18.70	0.00	20.20	18.70	16.80	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 9:00 AM	322.00	5.00	19.20	15.20	0.00	20.00	15.20	14.10	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 9:15 AM	332.00	4.30	14.40	17.20	2.80	0.00	17.20	15.60	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 9:30 AM	342.00	4.70	11.00	10.20	0.00	19.70	10.20	28.30	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 9:45 AM	358.00	4.80	7.90	8.70	0.80	19.60	8.70	9.70	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 10:00 AM	359.00	3.80	9.40	7.10	0.00	19.50	7.10	6.00	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 10:15 AM	336.00	4.60	6.40	6.80	0.40	19.50	6.80	6.30	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 10:30 AM	324.00	5.60	7.30	5.40	0.00	19.40	5.40	5.30	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 10:45 AM	353.00	4.30	7.10	5.40	0.00	19.40	5.40	6.70	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 11:00 AM	353.00	5.10	6.70	5.10	0.00	19.40	5.10	4.50	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 11:15 AM	331.00	4.40	7.60	5.70	0.00	19.40	5.70	4.70	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 11:30 AM	345.00	4.70	6.40	5.90	0.00	19.40	5.90	4.50	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 11:45 AM	353.00	6.90	6.80	6.00	0.00	19.40	6.00	5.30	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 12:00 PM	353.00	2.90	9.90	6.30	0.00	19.60	6.30	5.60	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 12:15 PM	311.00	4.40	7.90	6.40	0.00	19.50	6.40	5.50	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 12:30 PM	293.00	5.30	7.30	6.10	0.00	19.40	6.10	6.50	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 12:45 PM	337.00	4.70	8.10	6.30	0.00	19.50	6.30	7.00	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 1:00 PM	354.00	4.50	7.90	6.30	0.00	19.50	6.30	6.30	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 1:15 PM	313.00	5.40	8.10	6.40	0.00	19.50	6.40	6.50	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 1:30 PM	327.00	4.10	8.20	6.70	0.00	19.30	6.70	6.90	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 1:45 PM	332.00	6.50	8.60	6.40	0.00	19.30	6.40	7.40	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 2:00 PM	314.00	5.60	7.40	5.90	0.00	19.30	5.90	7.30	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 2:15 PM	318.00	5.10	9.10	5.90	0.00	19.30	5.90	6.20	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 2:30 PM	342.00	3.10	8.90	6.70	0.00	19.30	6.70	7.20	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 2:45 PM	310.00	4.20	11.90	5.90	0.00	19.40	5.90	6.60	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 3:00 PM	322.00	5.20	8.30	6.30	0.00	18.80	6.30	6.90	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 3:15 PM	328.00	5.80	12.10	5.90	0.00	18.70	5.90	6.90	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 3:30 PM	343.00	3.90	12.10	6.10	0.00	18.80	6.10	7.30	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 3:45 PM	342.00	4.30	10.20	7.10	0.00	18.80	7.10	8.20	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/16/13 4:00 PM	333.00	4.90	9.70	6.90	0.00	18.80	6.90	8.00	9.70	0.00								



US Army Corps
of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
2-15-13 to 2-21-13

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
2/18/13 11:00 PM	260.00	7.60	5.00	0.80	0.00	0.80	4.50	5.00	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/13 11:15 PM	275.00	7.00	5.50	0.70	0.00	0.70	3.50	5.50	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/13 11:30 PM	264.00	8.60	7.30	13.70	6.40	1.10	13.70	9.60	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/13 11:45 PM	284.00	7.80	13.30	1.10	0.00	1.10	19.90	13.30	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 12:00 AM	290.00	6.90	8.00	14.90	6.90	1.10	14.90	11.50	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 12:15 AM	298.00	8.00	7.60	11.10	3.50	0.00	11.10	10.40	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 12:30 AM	273.00	7.40	9.60	17.10	7.50	1.10	17.10	10.40	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 12:45 AM	294.00	7.40	9.70	15.30	5.60	1.10	15.30	12.20	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 1:00 AM	280.00	7.70	13.30	20.00	6.70	1.10	20.00	15.60	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 1:15 AM	275.00	9.30	15.00	24.70	9.70	1.40	24.70	19.50	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 1:30 AM	266.00	9.60	21.20	27.10	5.90	1.40	27.10	20.40	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 1:45 AM	288.00	8.90	29.70	1.40	0.00	1.40	35.40	29.70	31.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 2:00 AM	274.00	9.70	31.50	29.80	0.00	1.40	29.80	26.50	31.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 2:15 AM	260.00	11.40	28.40	27.30	0.00	1.90	27.30	24.80	28.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 2:30 AM	260.00	11.40	21.80	1.70	0.00	1.70	23.40	21.80	27.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 2:45 AM	272.00	8.20	17.10	1.70	0.00	1.70	16.90	17.10	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 3:00 AM	263.00	10.30	25.30	20.30	0.00	1.60	20.30	20.30	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 3:15 AM	278.00	5.90	21.70	1.60	0.00	1.60	17.60	21.70	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 3:30 AM	260.00	11.40	25.80	18.60	0.00	1.60	18.60	19.00	25.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 3:45 AM	277.00	5.60	18.00	1.50	0.00	1.50	17.00	18.00	25.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 4:00 AM	262.00	9.50	21.90	15.40	0.00	1.50	15.40	17.40	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 4:15 AM	263.00	7.00	18.40	1.60	0.00	1.60	16.80	18.40	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 4:30 AM	255.00	10.10	16.20	1.50	0.00	1.50	14.90	16.20	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 4:45 AM	263.00	8.40	15.50	1.50	0.00	1.50	14.10	15.50	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 5:00 AM	264.00	11.80	13.90	1.40	0.00	1.40	14.30	13.90	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 5:15 AM	268.00	11.20	13.90	1.40	0.00	1.40	14.90	13.90	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 5:30 AM	271.00	8.00	14.50	1.40	0.00	1.40	15.70	14.50	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 5:45 AM	273.00	8.90	20.00	19.30	0.00	1.30	19.30	15.30	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 6:00 AM	271.00	11.10	19.80	16.10	0.00	1.40	16.10	12.90	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 6:15 AM	257.00	11.00	20.40	23.70	3.30	1.70	23.70	13.50	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 6:30 AM	287.00	7.00	12.50	1.40	0.00	1.40	25.80	12.50	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 6:45 AM	283.00	10.20	20.80	21.20	0.40	1.30	21.20	12.70	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 7:00 AM	269.00	8.80	22.20	22.20	0.00	1.30	22.20	13.20	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 7:15 AM	265.00	8.70	14.50	1.20	0.00	1.20	27.60	14.50	31.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 7:30 AM	265.00	6.80	14.90	1.30	0.00	1.30	28.10	14.90	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 7:45 AM	273.00	11.50	18.10	1.30	0.00	1.30	37.50	18.10	36.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 8:00 AM	276.00	8.80	38.60	31.30	0.00	1.30	31.30	15.90	38.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 8:15 AM	274.00	8.50	37.10	25.20	0.00	1.20	25.20	13.70	37.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 8:30 AM	274.00	7.60	46.30	31.70	0.00	1.30	31.70	14.70	46.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 8:45 AM	267.00	8.00	44.20	39.60	0.00	1.20	39.60	18.90	44.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 9:00 AM	269.00	11.00	16.10	1.40	0.00	1.40	30.90	16.10	37.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 9:15 AM	269.00	6.90	15.70	1.40	0.00	1.40	44.10	15.70	42.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 9:30 AM	255.00	10.00	15.80	1.30	0.00	1.30	32.20	15.80	39.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 9:45 AM	277.00	9.40	15.90	1.30	0.00	1.30	30.70	15.90	37.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 10:00 AM	286.00	7.80	38.60	44.00	5.40	1.30	44.00	16.00	38.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 10:15 AM	289.00	10.30	42.30	50.00	7.70	1.30	50.00	30.00	42.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 10:30 AM	259.00	10.20	45.70	38.10	0.00	2.00	38.10	23.10	45.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 10:45 AM	297.00	7.20	16.00	1.50	0.00	1.50	44.80	16.00	38.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 11:00 AM	266.00	11.80	38.60	45.20	6.60	1.60	45.20	19.90	38.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 11:15 AM	276.00	7.60	27.80	1.60	0.00	1.60	50.90	27.80	42.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 11:30 AM	281.00	8.70	36.40	39.50	3.10	1.40	39.50	20.80	36.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 11:45 AM	276.00	8.60	34.40	44.70	10.30	1.30	44.70	16.90	34.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 12:00 PM	282.00	11.90	40.60	58.70	18.10	1.30	58.70	17.70	40.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 12:15 PM	271.00	7.90	38.40	70.60	32.20	1.70	70.60	25.20	38.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 12:30 PM	269.00	7.50	41.70	63.40	21.70	1.40	63.40	18.60	41.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 12:45 PM	283.00	8.00	20.30	2.90	0.00	2.90	93.30	20.30	35.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 1:00 PM	287.00	7.50	37.20	118.00	80.80	1.30	118.00	22.00	37.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 1:15 PM	288.00	8.10	34.40	46.20	11.80	1.60	46.20	21.00	34.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 1:30 PM	287.00	9.10	34.40	40.00	5.60	2.00	40.00	18.40	34.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 1:45 PM	279.00	9.80	38.40	48.20	9.80	1.60	48.20	22.70	38.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 2:00 PM	284.00	8.50	34.30	35.30	1.00	1.70	35.30	22.20	34.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 2:15 PM	273.00	8.60	38.10	35.90	0.00	1.70	35.90	20.20	38.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 2:30 PM	289.00	8.60	38.10	30.00	0.00	1.30	30.00	17.70	38.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 2:45 PM	278.00	7.60	36.00	36.60	0.60	1.30	36.60	18.40	36.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 3:00 PM	259.00	10.60	38.00	40.60	2.60	1.60	40.60	26.70	38.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/19/13 3:15 PM	299.00	8.50	16.90	1.90	0.00	1.90												



**US Army Corps
of Engineers**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
2-15-13 to 2-21-13

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates ($\mu\text{g}/\text{m}^3$)							Naphthalene ($\mu\text{g}/\text{m}^3$)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
2/21/13 10:15 PM	117.00	8.70	28.60	21.60	0.00	22.30	28.60	22.70	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/21/13 10:30 PM	129.00	9.20	41.90	21.60	0.00	22.20	41.90	27.80	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/21/13 10:45 PM	109.00	5.40	79.70	33.60	0.00	32.30	79.70	31.50	33.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/21/13 11:00 PM	122.00	6.90	36.50	22.30	0.00	23.30	36.50	32.10	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/21/13 11:15 PM	110.00	6.10	47.60	23.80	0.00	21.20	47.60	36.60	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/21/13 11:30 PM	124.00	6.00	47.80	28.60	0.00	26.20	47.80	40.70	28.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/21/13 11:45 PM	113.00	5.10	48.30	31.90	0.00	27.30	48.30	39.90	31.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00