



US Army Corps
of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
2-1-13 to 2-7-13

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		
2/1/13 12:00 AM	307.00	5.90	17.90	28.50	10.60	17.30	28.50	21.90	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 12:15 AM	320.00	8.30	17.50	26.40	8.90	17.30	26.40	22.40	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 12:30 AM	291.00	6.20	17.10	25.50	8.40	17.10	25.50	19.90	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 12:45 AM	292.00	4.90	17.00	25.70	8.70	16.80	25.70	20.40	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 1:00 AM	300.00	8.30	19.70	25.70	6.00	16.80	25.70	20.50	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 1:15 AM	292.00	5.80	17.10	25.80	8.70	16.70	25.80	19.90	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 1:30 AM	287.00	7.50	16.40	24.60	8.20	16.90	24.60	19.80	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 1:45 AM	302.00	6.80	16.40	24.00	7.60	16.70	24.00	19.20	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 2:00 AM	301.00	4.70	16.70	24.30	7.60	16.70	24.30	19.10	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 2:15 AM	295.00	6.50	16.40	23.30	6.90	16.50	23.30	18.20	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 2:30 AM	294.00	6.60	15.90	22.10	6.20	16.20	22.10	17.30	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 2:45 AM	291.00	6.80	16.00	21.70	5.70	16.20	21.70	17.40	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 3:00 AM	284.00	8.90	15.50	22.30	6.80	16.10	22.30	17.00	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 3:15 AM	298.00	4.80	18.10	21.00	2.90	15.90	21.00	17.40	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 3:30 AM	292.00	7.00	18.70	20.80	2.10	15.90	20.80	16.50	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 3:45 AM	285.00	7.70	15.30	20.30	5.00	15.90	20.30	16.80	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 4:00 AM	284.00	6.70	14.70	19.50	4.80	15.90	19.50	16.10	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 4:15 AM	301.00	7.20	14.80	19.40	4.60	15.90	19.40	15.80	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 4:30 AM	283.00	6.60	14.00	20.20	6.20	16.00	20.20	16.20	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 4:45 AM	296.00	7.30	15.30	19.20	3.90	16.00	19.20	17.80	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 5:00 AM	294.00	6.70	15.50	20.50	5.00	16.00	20.50	16.60	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 5:15 AM	292.00	7.90	14.90	21.30	6.40	15.90	21.30	16.20	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 5:30 AM	282.00	7.00	15.70	22.10	6.40	16.00	22.10	17.80	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 5:45 AM	296.00	4.70	16.00	21.50	5.50	16.20	21.50	16.40	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 6:00 AM	284.00	4.40	18.60	21.80	3.20	15.90	21.80	17.30	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 6:15 AM	275.00	3.60	16.30	21.30	5.00	17.40	21.30	16.50	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 6:30 AM	291.00	3.70	15.00	21.50	6.50	17.40	21.50	17.50	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 6:45 AM	284.00	4.50	15.80	22.10	6.30	17.40	22.10	15.90	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 7:00 AM	290.00	6.00	21.10	20.10	0.00	17.30	20.10	16.90	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 7:15 AM	298.00	5.10	15.80	19.30	3.50	17.30	19.30	17.40	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 7:30 AM	294.00	3.90	15.60	19.80	4.20	17.50	19.80	15.90	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 7:45 AM	290.00	5.90	16.40	19.50	3.10	17.50	19.50	15.80	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 8:00 AM	287.00	4.70	14.30	19.30	5.00	17.40	19.30	15.80	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 8:15 AM	293.00	4.10	15.90	19.30	3.40	17.50	19.30	15.80	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 8:30 AM	257.00	4.90	26.40	17.70	0.00	17.70	20.00	26.40	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 8:45 AM	294.00	5.10	14.00	18.90	4.90	17.50	18.90	15.90	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 9:00 AM	275.00	4.20	18.90	20.80	1.90	17.50	20.80	18.20	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 9:15 AM	272.00	5.90	18.70	19.10	0.40	17.50	19.10	15.80	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 9:30 AM	281.00	5.40	15.90	17.90	2.00	17.50	17.90	14.90	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 9:45 AM	252.00	6.70	14.50	17.50	3.00	17.50	18.50	14.50	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 10:00 AM	244.00	4.30	14.90	17.40	2.50	17.40	18.70	14.90	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 10:15 AM	245.00	6.80	13.50	17.50	4.00	17.50	18.80	13.50	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 10:30 AM	279.00	5.40	13.00	17.80	4.80	17.40	17.80	13.40	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 10:45 AM	268.00	6.10	14.20	17.50	3.30	17.50	17.90	14.20	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 11:00 AM	244.00	5.80	11.90	17.40	5.50	17.40	17.20	11.90	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 11:15 AM	257.00	4.80	11.30	17.30	6.00	17.30	14.80	11.30	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 11:30 AM	253.00	6.20	11.80	17.40	5.60	17.40	14.20	11.80	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 11:45 AM	248.00	6.20	10.20	17.20	7.00	17.20	14.00	10.20	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 12:00 PM	273.00	5.50	11.10	12.50	1.40	17.20	12.50	9.50	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 12:15 PM	249.00	7.30	9.50	17.20	7.70	17.20	15.70	9.50	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 12:30 PM	267.00	6.90	8.70	17.20	8.50	17.20	12.00	8.70	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 12:45 PM	262.00	5.50	8.40	17.10	8.70	17.10	11.20	8.40	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 1:00 PM	260.00	5.10	8.30	0.00	0.00	0.00	11.50	8.30	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 1:15 PM	281.00	5.50	9.70	11.40	1.70	17.20	11.40	8.50	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 1:30 PM	236.00	6.40	9.60	17.20	7.60	17.20	11.80	9.60	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 1:45 PM	247.00	7.00	10.40	17.10	6.70	17.10	12.10	10.40	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 2:00 PM	245.00	5.90	9.10	17.10	8.00	17.10	10.10	9.10	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 2:15 PM	247.00	6.90	9.00	17.10	8.10	17.10	10.50	9.00	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 2:30 PM	258.00	4.90	8.70	17.10	8.40	17.10	10.50	8.70	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 2:45 PM	244.00	6.60	9.10	17.00	7.90	17.00	10.10	9.10	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 3:00 PM	248.00	6.40	9.00	17.10	8.10	17.10	10.30	9.00	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 3:15 PM	244.00	5.30	9.20	17.10	7.90	17.10	10.00	9.20	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 3:30 PM	241.00	5.20	9.00	17.20	8.20	17.20	10.30	9.00	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 3:45 PM	263.00	5.60	9.00	17.10	8.10	17.10	9.20	9.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 4:00 PM	260.00	5.20	7.90	17.10	9.20	17.10	9.00	7.90	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/1/13 4:15 PM	256.00	6.20	8.40	17.10	8.70	17.10	9.20	8.40	9.50									



**US Army Corps
of Engineers**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
2-1-13 to 2-7-13

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		
2/1/13 11:45 PM	229.00	3.10	13.60	17.10	3.50	17.10	16.40	13.60	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 12:00 AM	220.00	2.70	15.20	17.10	1.90	17.10	14.20	15.20	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 12:15 AM	221.00	3.70	12.20	17.10	4.90	17.10	15.80	12.20	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 12:30 AM	237.00	3.10	14.80	17.20	2.40	17.20	15.50	14.80	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 12:45 AM	219.00	2.90	14.50	17.20	2.70	17.20	17.10	14.50	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 1:00 AM	235.00	3.10	14.70	17.10	2.40	17.10	16.60	14.70	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 1:15 AM	230.00	3.50	15.60	17.10	1.50	17.10	16.80	15.60	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 1:30 AM	207.00	2.90	15.60	17.10	1.50	17.10	17.40	15.60	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 1:45 AM	194.00	3.30	17.40	17.20	0.00	17.20	19.10	17.40	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 2:00 AM	200.00	3.50	19.90	17.30	0.00	17.30	21.00	19.90	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 2:15 AM	203.00	3.50	20.90	0.00	0.00	0.00	23.60	20.90	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 2:30 AM	192.00	5.30	18.60	17.50	0.00	17.50	26.60	18.60	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 2:45 AM	196.00	3.50	18.60	17.50	0.00	17.50	23.70	18.60	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 3:00 AM	206.00	5.30	18.00	17.50	0.00	17.50	23.10	18.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 3:15 AM	187.00	6.40	18.30	17.50	0.00	17.50	23.00	18.30	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 3:30 AM	208.00	5.80	19.00	17.60	0.00	17.60	23.60	19.00	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 3:45 AM	215.00	5.50	19.30	17.70	0.00	17.70	24.30	19.30	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 4:00 AM	198.00	6.20	20.10	17.70	0.00	17.70	23.50	20.10	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 4:15 AM	204.00	4.80	20.60	17.80	0.00	17.80	23.40	20.60	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 4:30 AM	201.00	4.50	21.10	17.80	0.00	17.80	23.90	21.10	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 4:45 AM	214.00	5.30	21.70	17.90	0.00	17.90	25.90	21.70	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 5:00 AM	209.00	5.60	22.50	17.90	0.00	17.90	24.60	22.50	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 5:15 AM	216.00	5.10	22.20	0.00	0.00	0.00	22.90	22.20	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 5:30 AM	203.00	5.70	21.70	17.90	0.00	17.90	21.80	21.70	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 5:45 AM	215.00	5.10	18.50	17.80	0.00	17.80	19.80	18.50	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 6:00 AM	211.00	4.00	18.20	17.80	0.00	17.80	19.50	18.20	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 6:15 AM	211.00	4.10	17.20	17.70	0.50	17.70	18.70	17.20	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 6:30 AM	211.00	4.60	17.60	17.70	0.10	17.70	18.80	17.60	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 6:45 AM	218.00	4.80	17.40	17.80	0.40	17.80	18.40	17.40	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 7:00 AM	224.00	5.80	18.00	17.80	0.00	17.80	18.50	18.00	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 7:15 AM	220.00	3.80	17.70	17.70	0.00	17.70	18.70	17.70	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 7:30 AM	210.00	3.90	17.70	17.70	0.00	17.70	19.20	17.70	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 7:45 AM	207.00	4.10	18.10	17.80	0.00	17.80	18.80	18.10	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 8:00 AM	215.00	3.70	19.50	17.80	0.00	17.80	18.70	19.50	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 8:15 AM	211.00	3.20	23.90	17.80	0.00	17.80	19.40	23.90	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 8:30 AM	217.00	3.60	22.60	18.10	0.00	18.10	21.00	22.60	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 8:45 AM	220.00	4.10	24.10	18.10	0.00	18.10	22.10	24.10	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 9:00 AM	221.00	4.20	24.30	18.10	0.00	18.10	22.50	24.30	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 9:15 AM	224.00	3.80	22.50	17.90	0.00	17.90	21.50	22.50	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 9:30 AM	234.00	3.20	21.80	0.00	0.00	0.00	21.00	21.80	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 9:45 AM	237.00	3.70	21.30	18.00	0.00	18.00	19.70	21.30	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 10:00 AM	243.00	3.00	21.10	18.00	0.00	18.00	19.80	21.10	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 10:15 AM	250.00	2.80	23.10	18.00	0.00	18.00	20.20	23.10	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 10:30 AM	253.00	3.00	22.30	18.10	0.00	18.10	20.20	22.30	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 10:45 AM	257.00	2.60	23.40	18.10	0.00	18.10	20.80	23.40	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 11:00 AM	264.00	3.00	23.50	18.20	0.00	18.20	21.70	23.50	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 11:15 AM	269.00	3.30	23.10	18.30	0.00	18.30	22.00	23.10	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 11:30 AM	267.00	2.10	23.00	18.30	0.00	18.30	22.40	23.00	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 11:45 AM	317.00	2.60	13.20	22.50	9.30	18.20	22.50	23.10	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 12:00 PM	340.00	2.40	14.30	23.70	9.40	18.20	23.70	23.70	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 12:15 PM	335.00	3.50	15.30	22.20	6.90	18.20	22.20	24.10	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 12:30 PM	6.00	10.50	17.80	16.10	0.00	17.80	22.60	16.10	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 12:45 PM	6.00	10.90	17.70	15.50	0.00	17.70	18.00	15.50	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 1:00 PM	9.00	9.40	17.60	15.50	0.00	17.60	15.90	15.50	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 1:15 PM	6.00	9.30	17.60	16.00	0.00	17.60	15.80	16.00	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 1:30 PM	3.00	6.60	17.60	16.70	0.00	17.60	17.40	16.70	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 1:45 PM	6.00	7.50	17.70	17.80	0.10	17.70	17.60	17.80	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 2:00 PM	3.00	7.40	17.90	21.40	3.50	17.90	19.30	21.40	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 2:15 PM	1.00	6.20	17.80	25.20	7.40	17.80	26.80	25.20	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 2:30 PM	1.00	5.90	17.70	25.60	7.90	17.70	24.70	25.60	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 2:45 PM	4.00	7.00	17.60	21.60	4.00	17.60	26.10	21.60	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 3:00 PM	7.00	6.70	17.60	22.60	5.00	17.60	24.60	22.60	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 3:15 PM	7.00	7.80	17.60	23.90	6.30	17.60	30.50	23.90	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 3:30 PM	9.00	7.90	17.60	25.70	8.10	17.60	31.70	25.70	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 3:45 PM	7.00	8.20	17.50	22.40	4.90	17.50	38.20	22.40	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 4:00 PM	9.00	7.50	17.40	21.40	4.00	17.40	31.30	21.40										



US Army Corps
of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
2-1-13 to 2-7-13

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		
2/2/13 11:30 PM	268.00	3.00	24.60	17.70	0.00	17.70	30.70	24.60	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/2/13 11:45 PM	271.00	2.90	19.90	31.60	11.70	17.80	31.60	25.40	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 12:00 AM	266.00	2.00	22.80	17.80	0.00	17.80	28.30	22.80	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 12:15 AM	267.00	1.60	21.40	17.60	0.00	17.60	26.60	21.40	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 12:30 AM	245.00	1.40	21.00	17.60	0.00	17.60	26.00	21.00	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 12:45 AM	272.00	1.60	19.20	25.30	6.10	17.60	25.30	20.80	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 1:00 AM	269.00	2.40	20.40	17.60	0.00	17.60	24.70	20.40	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 1:15 AM	259.00	2.70	20.10	17.70	0.00	17.70	23.10	20.10	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 1:30 AM	275.00	3.20	18.70	23.30	4.60	17.60	23.30	20.20	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 1:45 AM	287.00	2.40	17.30	20.20	2.90	17.60	20.20	17.40	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 2:00 AM	283.00	2.30	16.00	19.50	3.50	17.40	19.50	16.50	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 2:15 AM	289.00	1.90	16.30	19.60	3.30	17.40	19.60	16.60	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 2:30 AM	269.00	2.10	16.70	17.50	0.80	17.50	19.50	16.70	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 2:45 AM	252.00	1.00	16.60	17.50	0.90	17.50	19.50	16.60	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 3:00 AM	261.00	1.40	17.60	17.50	0.00	17.50	19.60	17.60	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 3:15 AM	271.00	1.70	16.80	20.00	3.20	17.50	20.00	18.10	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 3:30 AM	260.00	1.60	18.30	17.40	0.00	17.40	19.80	18.30	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 3:45 AM	242.00	2.00	18.20	17.40	0.00	17.40	19.80	18.20	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 4:00 AM	267.00	1.60	17.70	17.50	0.00	17.50	19.70	17.70	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 4:15 AM	268.00	1.40	16.60	17.40	0.80	17.40	19.20	16.60	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 4:30 AM	254.00	2.10	17.10	17.40	0.30	17.40	19.20	17.10	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 4:45 AM	239.00	2.30	17.10	17.50	0.40	17.50	18.60	17.10	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 5:00 AM	244.00	2.30	17.80	17.50	0.00	17.50	19.00	17.80	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 5:15 AM	251.00	2.50	17.90	17.70	0.00	17.70	19.40	17.90	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 5:30 AM	255.00	2.60	17.80	17.50	0.00	17.50	19.60	17.80	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 5:45 AM	274.00	2.00	18.40	20.00	1.60	17.50	20.00	17.80	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 6:00 AM	240.00	2.20	18.60	17.70	0.00	17.70	20.80	18.60	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 6:15 AM	240.00	2.60	20.20	17.70	0.00	17.70	20.80	20.20	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 6:30 AM	250.00	2.40	20.10	17.70	0.00	17.70	21.30	20.10	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 6:45 AM	270.00	3.10	20.50	22.20	1.70	17.80	22.20	21.00	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 7:00 AM	270.00	3.70	21.00	23.30	2.30	18.00	23.30	22.60	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 7:15 AM	256.00	3.10	20.90	18.00	0.00	18.00	21.80	20.90	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 7:30 AM	279.00	3.50	21.30	22.70	1.40	18.00	22.70	21.30	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 7:45 AM	276.00	2.70	20.70	22.60	1.90	17.90	22.60	20.90	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 8:00 AM	272.00	3.50	21.30	23.40	2.10	18.00	23.40	22.10	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 8:15 AM	271.00	3.40	22.10	23.20	1.10	18.00	23.20	22.80	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 8:30 AM	255.00	2.10	22.70	17.90	0.00	17.90	23.50	22.70	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 8:45 AM	242.00	3.50	24.40	17.90	0.00	17.90	25.00	24.40	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 9:00 AM	240.00	3.20	24.40	17.90	0.00	17.90	24.40	24.40	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 9:15 AM	235.00	2.70	24.60	18.10	0.00	18.10	25.50	24.60	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 9:30 AM	247.00	3.30	26.00	17.90	0.00	17.90	26.70	26.00	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 9:45 AM	262.00	3.20	27.60	17.90	0.00	17.90	27.20	27.60	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 10:00 AM	246.00	4.10	28.80	18.20	0.00	18.20	29.20	28.80	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 10:15 AM	247.00	3.90	27.90	18.30	0.00	18.30	29.30	27.90	26.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 10:30 AM	265.00	3.00	27.40	18.30	0.00	18.30	28.20	27.40	27.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 10:45 AM	255.00	2.70	27.40	18.30	0.00	18.30	28.00	27.40	26.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 11:00 AM	277.00	3.70	24.60	27.60	3.00	18.40	27.60	27.70	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 11:15 AM	281.00	4.70	23.60	26.90	3.30	18.30	26.90	25.70	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 11:30 AM	306.00	3.00	23.00	26.60	3.60	18.30	26.60	26.20	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 11:45 AM	317.00	3.80	20.30	22.00	1.70	18.00	22.00	22.70	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 12:00 PM	307.00	4.90	19.50	21.20	1.70	18.00	21.20	21.00	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 12:15 PM	320.00	4.70	20.20	21.50	1.30	18.00	21.50	21.20	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 12:30 PM	319.00	5.30	19.80	21.80	2.00	18.10	21.80	21.40	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 12:45 PM	307.00	6.20	20.80	23.20	2.40	18.30	23.20	23.10	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 1:00 PM	316.00	5.80	20.40	22.30	1.90	18.20	22.30	22.60	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 1:15 PM	304.00	5.40	20.60	23.50	2.90	18.20	23.50	22.50	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 1:30 PM	314.00	6.80	19.70	22.80	3.10	18.20	22.80	22.10	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 1:45 PM	316.00	7.30	18.30	21.60	3.30	18.10	21.60	21.20	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 2:00 PM	309.00	6.50	18.40	21.10	2.70	18.10	21.10	20.30	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 2:15 PM	310.00	6.90	17.90	20.00	2.10	18.00	20.00	18.80	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 2:30 PM	320.00	5.40	16.50	18.40	1.90	17.90	18.40	17.70	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 2:45 PM	295.00	6.50	16.20	17.80	1.60	17.90	17.80	17.40	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 3:00 PM	315.00	5.90	16.70	18.40	1.70	17.90	18.40	18.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 3:15 PM	322.00	5.50	16.60	19.00	2.40	17.90	19.00	18.60	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 3:30 PM	320.00	7.10	16.50	20.20	3.70	17.90	20.20	19.30	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/3/13 3:45 PM	313.00	5.00	18.30	21.70														



US Army Corps
of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
2-1-13 to 2-7-13

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
2/4/13 11:00 PM	328.00	2.20	21.70	23.30	1.60	17.80	23.30	30.20	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/4/13 11:15 PM	339.00	2.70	22.40	21.00	0.00	17.90	21.00	21.20	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/4/13 11:30 PM	339.00	2.50	22.90	20.20	0.00	17.90	20.20	20.10	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/4/13 11:45 PM	340.00	2.50	22.80	19.80	0.00	17.90	19.80	20.40	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 12:00 AM	5.00	5.10	17.50	19.90	2.40	17.50	17.20	19.90	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 12:15 AM	2.00	3.60	17.50	15.50	0.00	17.50	14.80	15.50	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 12:30 AM	337.00	2.00	17.50	13.60	0.00	17.40	13.60	19.40	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 12:45 AM	311.00	3.10	22.90	20.00	0.00	18.00	20.00	21.40	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 1:00 AM	313.00	2.60	22.70	21.30	0.00	17.90	21.30	22.70	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 1:15 AM	309.00	2.40	24.30	22.20	0.00	18.10	22.20	22.50	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 1:30 AM	277.00	1.50	24.10	21.90	0.00	18.10	21.90	22.50	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 1:45 AM	296.00	1.20	23.70	23.10	0.00	18.10	23.10	23.10	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 2:00 AM	288.00	1.30	24.10	22.90	0.00	18.10	22.90	24.20	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 2:15 AM	258.00	0.80	22.90	18.20	0.00	18.20	23.70	22.90	25.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 2:30 AM	282.00	1.70	23.50	22.00	0.00	18.20	22.00	22.10	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 2:45 AM	283.00	1.60	23.00	22.20	0.00	18.00	22.20	22.20	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 3:00 AM	258.00	0.80	21.60	18.00	0.00	18.00	21.70	21.60	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 3:15 AM	260.00	1.30	22.30	18.00	0.00	18.00	22.60	22.30	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 3:30 AM	251.00	2.00	22.00	18.10	0.00	18.10	22.30	22.00	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 3:45 AM	269.00	1.60	21.40	18.10	0.00	18.10	21.00	21.40	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 4:00 AM	214.00	0.90	20.50	18.00	0.00	18.00	21.00	20.50	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 4:15 AM	235.00	0.90	20.00	18.00	0.00	18.00	21.10	20.00	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 4:30 AM	216.00	1.20	20.00	18.00	0.00	18.00	21.80	20.00	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 4:45 AM	213.00	1.20	23.00	18.10	0.00	18.10	23.00	23.00	27.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 5:00 AM	261.00	2.80	22.80	18.10	0.00	18.10	24.10	22.80	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 5:15 AM	240.00	2.10	24.10	18.30	0.00	18.30	25.50	24.10	27.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 5:30 AM	219.00	1.30	25.70	18.40	0.00	18.40	26.10	25.70	27.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 5:45 AM	213.00	1.90	25.70	18.80	0.00	18.80	27.40	25.70	27.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 6:00 AM	225.00	1.80	27.50	18.90	0.00	18.90	26.80	27.50	29.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 6:15 AM	230.00	2.30	27.50	18.90	0.00	18.90	26.10	27.50	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 6:30 AM	215.00	2.10	26.90	18.90	0.00	18.90	27.50	26.90	29.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 6:45 AM	209.00	1.80	30.70	19.30	0.00	19.30	28.30	30.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 7:00 AM	222.00	2.90	27.20	18.90	0.00	18.90	27.70	27.20	34.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 7:15 AM	225.00	2.10	26.50	19.50	0.00	19.50	28.00	26.50	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 7:30 AM	225.00	2.20	26.90	21.20	0.00	21.20	27.90	26.90	29.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 7:45 AM	207.00	2.80	27.60	50.00	22.40	50.00	30.30	27.60	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 8:00 AM	226.00	1.90	29.30	53.30	24.00	53.30	35.60	29.30	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 8:15 AM	219.00	2.40	29.40	48.20	18.80	48.20	36.40	29.40	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 8:30 AM	215.00	3.40	32.50	23.20	0.00	23.20	39.20	32.50	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 8:45 AM	226.00	2.40	33.30	22.80	0.00	22.80	38.90	33.30	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 9:00 AM	211.00	2.70	32.00	22.70	0.00	22.70	39.00	32.00	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 9:15 AM	217.00	3.20	33.50	22.80	0.00	22.80	38.30	33.50	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 9:30 AM	202.00	3.00	32.50	22.60	0.00	22.60	35.90	32.50	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 9:45 AM	191.00	5.00	27.70	22.50	0.00	22.50	31.40	27.70	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 10:00 AM	198.00	3.90	25.50	22.40	0.00	22.40	29.50	25.50	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 10:15 AM	207.00	6.60	23.30	22.00	0.00	22.00	24.70	23.30	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 10:30 AM	211.00	4.40	22.40	21.90	0.00	21.90	23.50	22.40	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 10:45 AM	212.00	4.20	20.90	21.90	1.00	21.90	21.50	20.90	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 11:00 AM	209.00	5.30	19.60	21.70	2.10	21.70	19.70	19.60	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 11:15 AM	210.00	5.90	18.60	21.60	3.00	21.60	18.80	18.60	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 11:30 AM	221.00	5.90	17.10	21.60	4.50	21.60	17.10	17.10	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 11:45 AM	214.00	5.40	18.20	21.70	3.50	21.70	17.80	18.20	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 12:00 PM	240.00	7.20	18.00	21.80	3.80	21.80	17.90	18.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 12:15 PM	208.00	6.50	19.60	21.80	2.20	21.80	18.70	19.60	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 12:30 PM	218.00	6.50	21.70	21.80	0.10	21.80	21.30	21.70	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 12:45 PM	219.00	5.90	23.50	21.80	0.00	21.80	23.00	23.50	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 1:00 PM	228.00	6.00	23.70	22.70	0.00	22.70	22.10	23.70	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 1:15 PM	237.00	7.50	24.70	22.60	0.00	22.60	23.00	24.70	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 1:30 PM	233.00	6.80	25.70	22.50	0.00	22.50	23.50	25.70	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 1:45 PM	245.00	6.70	27.60	22.50	0.00	22.50	25.20	27.60	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 2:00 PM	239.00	7.00	28.60	22.50	0.00	22.50	26.80	28.60	27.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 2:15 PM	245.00	4.80	28.90	22.80	0.00	22.80	27.40	28.90	29.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 2:30 PM	249.00	5.80	26.40	22.60	0.00	22.60	25.50	26.40	27.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 2:45 PM	261.00	5.60	26.60	22.60	0.00	22.60	24.60	26.60	27.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 3:00 PM	261.00	4.90	27.70	22.60	0.00	22.60	26.00	27.70	29.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 3:15 PM	259.00	5.30	31.80	22.70	0.00	22.70	28.10	31.80	29.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 3:30 PM	279.00	3.10	29.60	29.20	0.00	22.80	29.20	32.30	29.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 3:45 PM	285.00	4.00	35.10	29.80	0.00	23.20	29.80	34.00	35.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/5/13 4:00 PM	285.00	3.70	38.90	32.50	0.00	23.50	32.50	37.30	38.90	0.00	0.0					



US Army Corps
of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
2-1-13 to 2-7-13

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	
2/6/13 10:30 PM	181.00	3.20	36.20	0.00	0.00	0.00	35.80	36.20	37.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/6/13 10:45 PM	175.00	3.70	36.70	38.00	1.30	24.60	36.70	36.80	38.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/6/13 11:00 PM	188.00	3.80	36.40	24.60	0.00	24.60	36.90	36.40	37.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/6/13 11:15 PM	199.00	3.90	35.60	24.60	0.00	24.60	35.00	35.60	36.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/6/13 11:30 PM	191.00	3.80	35.90	24.80	0.00	24.80	36.10	35.90	36.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/6/13 11:45 PM	178.00	3.50	35.80	37.40	1.60	0.00	35.80	37.00	37.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 12:00 AM	175.00	3.80	36.90	38.10	1.20	25.00	36.90	37.30	38.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 12:15 AM	180.00	3.30	37.80	25.40	0.00	25.40	37.70	37.80	38.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 12:30 AM	181.00	4.50	37.40	25.20	0.00	25.20	37.40	37.40	37.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 12:45 AM	186.00	3.50	36.70	25.60	0.00	25.60	37.30	36.70	37.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 1:00 AM	189.00	2.90	36.80	25.80	0.00	25.80	36.60	36.80	37.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 1:15 AM	162.00	2.60	35.40	36.80	1.40	26.00	35.40	36.00	36.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 1:30 AM	156.00	2.20	35.90	37.30	1.40	26.30	35.90	35.50	37.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 1:45 AM	174.00	2.60	37.50	37.80	0.30	26.50	37.50	35.90	37.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 2:00 AM	154.00	2.90	37.70	39.20	1.50	26.70	37.70	37.20	39.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 2:15 AM	149.00	2.90	38.10	42.90	4.80	27.10	38.10	38.50	42.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 2:30 AM	155.00	2.20	39.20	41.50	2.30	27.00	39.20	38.50	41.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 2:45 AM	139.00	3.10	36.30	39.20	2.90	27.40	36.30	37.60	39.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 3:15 AM	153.00	3.30	38.80	40.80	2.00	28.40	38.80	39.40	40.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 3:30 AM	163.00	3.10	40.90	41.70	0.80	28.40	40.90	40.60	41.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 3:45 AM	155.00	3.30	41.70	41.00	0.00	28.90	41.70	40.80	41.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 4:00 AM	159.00	3.30	40.40	39.10	0.00	29.40	40.40	40.80	39.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 4:15 AM	159.00	2.60	40.90	38.30	0.00	29.50	40.90	40.90	38.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 4:30 AM	167.00	2.50	39.80	37.60	0.00	30.00	39.80	41.00	37.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 4:45 AM	144.00	3.30	40.10	36.80	0.00	30.10	40.10	40.30	36.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 5:00 AM	157.00	3.00	39.50	35.80	0.00	0.00	39.50	40.90	35.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 5:15 AM	156.00	4.10	38.30	36.40	0.00	30.00	38.30	39.20	36.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 5:30 AM	171.00	2.70	37.80	35.20	0.00	30.00	37.80	38.30	35.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 5:45 AM	170.00	3.60	37.20	34.90	0.00	0.00	37.20	38.30	34.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 6:00 AM	182.00	3.50	36.40	0.00	0.00	0.00	36.90	36.40	34.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 6:15 AM	165.00	3.40	36.90	34.50	0.00	0.00	36.90	35.70	34.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 6:30 AM	174.00	4.70	34.00	33.10	0.00	29.40	34.00	34.70	33.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 6:45 AM	167.00	4.90	34.00	33.30	0.00	29.40	34.00	33.40	33.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 7:00 AM	171.00	4.70	33.00	32.40	0.00	29.10	33.00	33.30	32.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 7:15 AM	189.00	3.60	34.00	29.10	0.00	29.10	34.50	34.00	29.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 7:30 AM	178.00	3.00	35.60	27.90	0.00	29.90	35.60	34.50	27.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 7:45 AM	163.00	3.00	34.80	26.20	0.00	29.60	34.80	34.80	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 8:00 AM	160.00	2.60	35.20	24.30	0.00	30.10	35.20	35.80	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 8:15 AM	148.00	3.20	35.40	24.30	0.00	30.70	35.40	35.60	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 8:30 AM	193.00	1.90	34.70	30.70	0.00	30.70	34.30	34.70	24.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 8:45 AM	163.00	2.50	34.20	24.70	0.00	30.30	34.20	34.80	24.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 9:00 AM	154.00	3.90	33.70	24.90	0.00	30.70	33.70	34.40	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 9:15 AM	183.00	2.80	34.10	30.50	0.00	30.50	34.30	34.10	25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 9:30 AM	138.00	2.80	33.40	27.40	0.00	30.30	33.40	33.70	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 9:45 AM	176.00	2.20	33.20	29.80	0.00	0.00	33.20	33.90	29.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 10:00 AM	147.00	3.20	33.70	29.00	0.00	31.30	33.70	34.30	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 10:15 AM	144.00	3.90	33.30	32.00	0.00	31.10	33.30	35.50	32.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 10:30 AM	155.00	3.50	33.50	32.20	0.00	31.50	33.50	35.10	32.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 10:45 AM	155.00	3.70	32.60	32.60	0.00	31.80	32.60	35.00	32.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 11:00 AM	154.00	4.10	32.60	34.10	1.50	0.00	32.60	33.60	34.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 11:15 AM	155.00	5.50	33.30	32.90	0.00	0.00	33.30	33.30	32.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 11:30 AM	161.00	4.60	34.70	32.50	0.00	31.30	34.70	33.10	32.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 11:45 AM	167.00	3.50	35.70	33.20	0.00	31.70	35.70	32.30	33.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 12:00 PM	156.00	1.50	35.10	31.50	0.00	31.20	35.10	31.30	31.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 12:15 PM	166.00	2.30	33.60	30.30	0.00	31.20	33.60	31.50	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 12:30 PM	142.00	1.60	33.60	29.90	0.00	0.00	33.60	30.50	29.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 12:45 PM	167.00	2.30	32.50	30.40	0.00	31.20	32.50	31.30	30.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 1:00 PM	140.00	2.60	30.80	28.40	0.00	31.60	30.80	31.10	28.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 1:15 PM	148.00	2.00	30.40	29.60	0.00	31.40	30.40	29.90	29.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 1:30 PM	156.00	2.00	31.30	30.10	0.00	31.30	31.30	31.50	30.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 1:45 PM	131.00	3.10	32.00	28.80	0.00	0.00	32.00	32.10	28.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 2:00 PM	82.00	1.30	31.00	33.40	2.40	31.00	32.40	33.40	29.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 2:15 PM	64.00	2.00	31.60	35.40	3.80	31.60	34.20	35.40	31.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 2:30 PM	87.00	3.00	0.00	37.60	0.00	0.00	36.90	37.60	35.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 2:45 PM	71.00	3.30	33.90	40.20	6.30	33.90	33.90	40.20	35.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 3:00 PM	60.00	2.40	34.60	40.30	5.70	34.60</											



**US Army Corps
of Engineers**

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
2/7/13 10:30 PM	345.00	3.90	30.00	38.10	8.10	42.80	38.10	37.70	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 10:45 PM	338.00	2.60	19.90	24.50	4.60	40.60	24.50	31.30	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 11:00 PM	330.00	3.60	33.90	45.20	11.30	44.20	45.20	46.00	33.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 11:15 PM	331.00	4.40	16.10	23.50	7.40	39.70	23.50	20.50	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 11:30 PM	333.00	3.60	10.80	16.60	5.80	36.50	16.60	18.70	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/13 11:45 PM	342.00	4.00	9.30	13.60	4.30	35.80	13.60	15.20	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00