



**US Army Corps
of Engineers®**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
5-1-13 to 5-7-13

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
5/1/13 12:00 AM	195.00	4.40	20.30	24.10	3.80	24.10	15.20	20.30	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 12:15 AM	187.00	3.80	19.40	24.30	4.90	24.30	15.80	19.40	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 12:30 AM	201.00	4.10	19.30	24.80	5.50	24.80	15.30	19.30	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 12:45 AM	196.00	4.20	19.90	25.20	5.30	25.20	15.90	19.90	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 1:00 AM	195.00	4.70	20.50	25.20	4.70	25.20	15.60	20.50	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 1:15 AM	193.00	4.10	22.50	25.40	2.90	25.40	16.00	22.50	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 1:30 AM	194.00	4.40	22.60	26.00	3.40	26.00	18.10	22.60	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 1:45 AM	201.00	3.30	22.30	25.90	3.60	25.90	17.80	22.30	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 2:00 AM	205.00	3.10	21.40	26.00	4.60	26.00	18.70	21.40	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 2:15 AM	206.00	3.70	20.00	26.30	6.30	26.30	18.60	20.00	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 2:30 AM	206.00	3.30	20.10	26.50	6.40	26.50	18.90	20.10	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 2:45 AM	203.00	2.60	20.00	27.00	7.00	27.00	19.30	20.00	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 3:00 AM	185.00	2.80	19.90	27.70	7.80	27.70	17.60	19.90	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 3:15 AM	201.00	3.00	20.50	27.90	7.40	27.90	17.40	20.50	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 3:30 AM	199.00	2.80	21.80	28.10	6.30	28.10	22.10	21.80	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 3:45 AM	201.00	2.20	22.30	29.40	7.10	29.40	18.80	22.30	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 4:00 AM	204.00	1.60	22.30	29.40	7.10	29.40	19.60	22.30	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 4:15 AM	210.00	2.00	22.40	29.50	7.10	29.50	23.30	22.40	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 4:30 AM	183.00	1.90	22.50	29.80	7.30	29.80	20.40	22.50	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 4:45 AM	193.00	1.30	22.40	30.20	7.80	30.20	22.40	22.40	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 5:00 AM	181.00	2.70	22.00	31.80	9.80	31.80	22.90	22.00	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 5:15 AM	182.00	3.20	22.50	34.20	11.70	34.20	22.50	22.50	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 5:30 AM	183.00	3.70	23.70	34.40	10.70	34.40	33.10	23.70	26.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 5:45 AM	187.00	3.10	26.60	37.30	10.70	37.30	28.70	26.60	27.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 6:00 AM	183.00	3.10	30.40	36.90	6.50	36.90	29.90	30.40	35.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 6:15 AM	176.00	3.40	35.20	32.20	0.00	38.30	35.20	30.10	32.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 6:30 AM	175.00	3.00	33.70	32.90	0.00	38.80	33.70	29.10	32.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 6:45 AM	178.00	3.40	31.10	30.70	0.00	40.40	31.10	29.90	30.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 7:00 AM	186.00	3.60	30.10	40.60	10.50	40.60	31.70	30.10	29.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 7:15 AM	189.00	3.40	31.60	40.60	9.00	40.60	31.10	31.60	30.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 7:30 AM	191.00	3.60	25.80	41.30	15.50	41.30	33.40	25.80	30.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 7:45 AM	211.00	2.90	25.10	37.90	12.80	37.90	38.00	25.10	29.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 8:00 AM	216.00	2.80	24.40	36.30	11.90	36.30	43.30	24.40	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 8:15 AM	205.00	3.40	25.80	35.50	9.70	35.50	34.90	25.80	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 8:30 AM	205.00	3.80	23.70	32.30	8.60	32.30	31.20	23.70	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 8:45 AM	207.00	3.50	24.30	30.20	5.90	30.20	29.10	24.30	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 9:00 AM	208.00	4.30	24.20	28.70	4.50	28.70	27.90	24.20	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 9:15 AM	221.00	4.10	25.00	26.60	1.60	26.60	26.00	25.00	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 9:30 AM	243.00	4.00	23.90	26.20	2.30	26.20	27.50	23.90	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 9:45 AM	219.00	4.40	23.00	25.10	2.10	25.10	22.30	23.00	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 10:00 AM	204.00	5.40	21.00	24.20	3.20	24.20	20.90	21.00	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 10:15 AM	200.00	4.00	19.30	22.60	3.30	22.60	18.70	19.30	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 10:30 AM	235.00	3.50	19.80	20.90	1.10	20.90	16.60	19.80	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 10:45 AM	212.00	4.60	17.30	20.00	2.70	20.00	16.60	17.30	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 11:00 AM	219.00	2.90	17.00	22.80	5.80	22.80	15.00	17.00	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 11:15 AM	186.00	3.80	15.30	0.00	0.00	0.00	15.00	15.30	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 11:30 AM	201.00	5.60	16.60	17.10	0.50	17.10	15.90	16.60	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 11:45 AM	222.00	3.80	26.60	16.70	0.00	16.70	17.40	26.60	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 12:00 PM	210.00	5.40	16.40	16.90	0.50	16.90	16.90	16.40	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 12:15 PM	219.00	6.00	17.20	16.50	0.00	16.50	14.90	17.20	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 12:30 PM	145.00	2.60	14.20	20.50	6.30	15.40	14.20	16.50	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 12:45 PM	148.00	3.20	14.80	19.80	5.00	15.40	14.80	16.20	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 1:00 PM	187.00	5.90	17.20	15.20	0.00	15.20	13.80	17.20	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 1:15 PM	169.00	4.20	18.00	21.90	3.90	0.00	18.00	17.00	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 1:30 PM	188.00	4.00	17.60	15.50	0.00	15.50	15.90	17.60	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 1:45 PM	178.00	4.50	15.20	22.40	7.20	15.20	15.20	17.70	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 2:00 PM	183.00	6.00	18.80	15.50	0.00	15.50	22.20	18.80	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 2:15 PM	155.00	5.10	19.50	21.50	2.00	16.10	19.50	19.50	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 2:30 PM	149.00	5.30	34.30	20.00	0.00	15.40	34.30	19.40	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 2:45 PM	180.00	5.70	19.00	0.00	0.00	0.00	27.00	19.00	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 3:00 PM	171.00	7.80	24.10	19.90	0.00	14.90	24.10	18.70	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 3:15 PM	216.00	6.30	17.80	15.10	0.00	15.10	25.50	17.80	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 3:30 PM	197.00	6.50	18.00	0.00	0.00	0.00	34.10	18.00	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 3:45 PM	213.00	5.70	17.30	14.20	0.00	14.20	24.90	17.30	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 4:00 PM	153.00	5.80	27.50	19.20	0.00	14.70	27.50	18.90	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 4:15 PM	174.00	3.60	20.80	21.00	0.20	15.60	20.80	18.10	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 4:30 PM	187.00	6.30	19.30	15.10	0.00	15.10	22.20	19.30	24.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 4:45 PM	171.00	8.20	18.50	25.80	7.30	14.60	18.50	19.10	25.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/13 5:00 PM	206.00	8.90	20.20	15.40	0.00	15.40	28.40	20.20	22.50	0.00	0.00					



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5-1-13 to 5-7-13

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	
5/2/13 12:45 AM	195.00	1.60	32.00	35.60	3.60	35.60	52.80	32.00	43.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 1:00 AM	210.00	1.30	28.50	35.70	7.20	35.70	52.80	28.50	37.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 1:15 AM	230.00	0.80	29.70	37.60	7.90	37.60	40.10	29.70	39.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 1:30 AM	11.00	6.20	36.20	28.60	0.00	36.20	41.90	28.60	37.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 1:45 AM	22.00	8.20	35.00	28.60	0.00	35.00	31.40	28.60	32.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 2:00 AM	18.00	9.30	33.70	32.10	0.00	33.70	31.50	32.10	30.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 2:15 AM	16.00	8.40	37.30	29.40	0.00	37.30	30.80	29.40	32.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 2:30 AM	15.00	8.30	40.30	29.30	0.00	40.30	37.00	29.30	36.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 2:45 AM	20.00	9.40	54.60	39.90	0.00	54.60	70.90	39.90	44.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 3:00 AM	18.00	8.70	43.10	19.90	0.00	43.10	39.20	19.90	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 3:15 AM	18.00	10.30	30.10	10.90	0.00	30.10	16.00	10.90	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 3:30 AM	20.00	10.40	0.00	10.90	0.00	0.00	16.00	10.90	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 3:45 AM	9.00	9.00	24.70	8.10	0.00	24.70	10.20	8.10	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 4:00 AM	15.00	7.20	24.70	9.50	0.00	24.70	12.90	9.50	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 4:15 AM	8.00	9.60	24.70	8.40	0.00	24.70	8.20	8.40	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 4:30 AM	9.00	9.80	24.70	6.90	0.00	24.70	8.70	6.90	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 4:45 AM	18.00	8.90	20.90	7.60	0.00	20.90	7.00	7.60	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 5:00 AM	17.00	11.00	0.00	6.10	0.00	0.00	7.10	6.10	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 5:15 AM	18.00	10.10	0.00	6.30	0.00	0.00	5.80	6.30	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 5:30 AM	21.00	10.60	0.00	6.10	0.00	0.00	6.80	6.10	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 5:45 AM	16.00	10.40	18.70	7.00	0.00	18.70	10.10	7.00	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 6:00 AM	16.00	8.10	18.30	5.30	0.00	18.30	7.40	5.30	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 6:15 AM	18.00	9.90	18.30	6.60	0.00	18.30	9.00	6.60	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 6:30 AM	15.00	9.90	18.30	6.40	0.00	18.30	9.40	6.40	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 6:45 AM	20.00	9.60	0.00	8.60	0.00	0.00	7.70	8.60	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 7:00 AM	20.00	8.30	18.10	10.40	0.00	18.10	8.90	10.40	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 7:15 AM	23.00	10.60	18.10	10.30	0.00	18.10	10.30	10.30	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 7:30 AM	20.00	7.30	17.50	8.30	0.00	17.50	11.40	8.30	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 7:45 AM	22.00	9.40	16.90	10.40	0.00	16.90	8.10	10.40	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 8:00 AM	20.00	9.60	17.60	8.40	0.00	17.60	10.00	8.40	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 8:15 AM	13.00	10.10	15.90	11.00	0.00	15.90	8.90	11.00	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 8:30 AM	14.00	9.10	17.10	11.30	0.00	17.10	11.40	11.30	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 8:45 AM	16.00	9.40	16.30	12.20	0.00	16.30	9.50	12.20	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 9:00 AM	19.00	9.20	15.80	9.30	0.00	15.80	9.00	9.30	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 9:15 AM	29.00	9.00	16.60	12.60	0.00	16.60	9.70	12.60	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 9:30 AM	21.00	9.10	15.30	10.80	0.00	15.30	10.00	10.80	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 9:45 AM	25.00	8.60	0.00	9.30	0.00	0.00	9.10	9.30	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 10:00 AM	18.00	9.40	14.80	10.10	0.00	14.80	7.00	10.10	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 10:15 AM	29.00	7.40	15.10	10.40	0.00	15.10	6.80	10.40	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 10:30 AM	22.00	10.10	15.10	9.10	0.00	15.10	9.90	9.10	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 10:45 AM	17.00	8.90	13.70	8.10	0.00	13.70	8.10	8.10	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 11:00 AM	26.00	9.30	13.70	10.00	0.00	13.70	8.60	10.00	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 11:15 AM	20.00	10.10	14.40	9.20	0.00	14.40	7.00	9.20	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 11:30 AM	18.00	9.60	12.90	9.00	0.00	12.90	5.70	9.00	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 11:45 AM	12.00	9.90	14.10	9.80	0.00	14.10	6.30	9.80	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 12:00 PM	25.00	8.90	13.40	8.40	0.00	13.40	6.90	8.40	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 12:15 PM	10.00	11.00	12.50	7.60	0.00	12.50	5.80	7.60	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 12:30 PM	2.00	7.80	0.00	9.30	0.00	0.00	8.50	9.30	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 12:45 PM	6.00	10.90	0.00	9.20	0.00	0.00	6.80	9.20	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 1:00 PM	6.00	10.90	13.30	8.90	0.00	13.30	6.10	8.90	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 1:15 PM	14.00	9.90	12.20	10.40	0.00	12.20	7.60	10.40	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 1:30 PM	14.00	10.00	12.40	9.10	0.00	12.40	5.80	9.10	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 1:45 PM	20.00	11.70	13.20	8.90	0.00	13.20	7.40	8.90	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 2:00 PM	21.00	11.50	14.20	10.90	0.00	14.20	12.60	10.90	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 2:15 PM	23.00	9.80	14.20	11.90	0.00	14.20	10.20	11.90	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 2:30 PM	24.00	9.30	13.80	10.90	0.00	13.80	10.90	10.90	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 2:45 PM	25.00	9.30	0.00	13.10	0.00	0.00	11.60	13.10	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 3:00 PM	32.00	8.70	13.40	22.70	9.30	13.40	11.90	22.70	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 3:15 PM	44.00	9.80	13.20	10.20	0.00	13.20	22.80	10.20	13.90	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00
5/2/13 3:30 PM	41.00	9.20	13.30	16.90	3.60	13.30	15.60	16.90	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 3:45 PM	33.00	7.30	13.30	8.00	0.00	13.30	12.50	8.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 4:00 PM	41.00	8.70	12.50	12.50	0.00	12.50	11.20	12.50	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 4:15 PM	39.00	7.60	12.10	10.90	0.00	12.10	9.60	10.90	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 4:30 PM	30.00	9.90	13.50	6.50	0.00	13.50	7.70	6.50	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 4:45 PM	38.00	8.40	12.10	7.40	0.00	12.10	9.00	7.40	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 5:00 PM	29.00	8.80	12.20	10.20	0.00	12.20	6.80	10.20	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/13 5:15 PM	37.00	8.30	12.80	10.10	0.00	12.80	7.40										



**US Army Corps
of Engineers®**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
5-1-13 to 5-7-13

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	
5/3/13 1:30 AM	15.00	12.00	11.60	11.30	0.00	11.60	2.70	11.30	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 1:45 AM	20.00	10.60	11.70	6.50	0.00	11.70	3.50	6.50	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 2:00 AM	39.00	9.50	11.10	6.50	0.00	11.10	3.10	6.50	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 2:15 AM	25.00	10.60	10.70	6.10	0.00	10.70	2.80	6.10	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 2:30 AM	19.00	10.00	11.00	5.90	0.00	11.00	2.80	5.90	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 2:45 AM	27.00	9.90	10.60	7.20	0.00	10.60	2.50	7.20	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 3:00 AM	34.00	10.20	9.50	6.10	0.00	9.50	1.60	6.10	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 3:15 AM	23.00	7.20	10.10	5.70	0.00	10.10	3.70	5.70	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 3:30 AM	32.00	9.10	9.10	4.40	0.00	9.10	1.90	4.40	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 3:45 AM	33.00	6.80	9.60	7.70	0.00	9.60	1.70	7.70	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 4:00 AM	35.00	8.00	9.70	4.60	0.00	9.70	2.40	4.60	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 4:15 AM	32.00	8.80	9.50	6.70	0.00	9.50	2.60	6.70	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 4:30 AM	31.00	8.80	9.60	4.80	0.00	9.60	4.70	4.80	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 4:45 AM	28.00	7.70	0.00	4.80	0.00	0.00	2.40	4.80	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 5:00 AM	24.00	10.20	0.00	6.20	0.00	0.00	2.00	6.20	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 5:15 AM	31.00	9.00	0.00	6.20	0.00	0.00	2.40	6.20	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 5:30 AM	23.00	7.80	10.50	5.50	0.00	10.50	2.70	5.50	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 5:45 AM	35.00	8.50	10.50	8.00	0.00	10.50	4.90	8.00	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 6:00 AM	17.00	7.70	10.00	5.70	0.00	10.00	2.80	5.70	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 6:15 AM	22.00	6.50	8.70	6.80	0.00	8.70	2.50	6.80	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 6:30 AM	26.00	7.80	0.00	6.70	0.00	0.00	3.40	6.70	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 6:45 AM	43.00	6.20	10.30	9.40	0.00	10.30	2.10	9.40	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 7:00 AM	19.00	7.10	0.00	5.90	0.00	0.00	3.60	5.90	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 7:15 AM	26.00	7.20	11.00	5.40	0.00	11.00	3.10	5.40	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 7:30 AM	43.00	7.20	10.60	6.00	0.00	10.60	4.70	6.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 7:45 AM	31.00	8.50	9.70	6.20	0.00	9.70	4.40	6.20	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 8:00 AM	32.00	6.70	0.00	7.80	0.00	0.00	4.10	7.80	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 8:15 AM	41.00	6.00	10.60	7.60	0.00	10.60	5.50	7.60	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 8:30 AM	41.00	5.90	9.60	6.30	0.00	9.60	5.60	6.30	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 8:45 AM	34.00	7.40	9.90	6.90	0.00	9.90	6.20	6.90	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 9:00 AM	38.00	8.30	9.50	7.80	0.00	9.50	5.10	7.80	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 9:15 AM	33.00	6.40	10.60	7.40	0.00	10.60	5.10	7.40	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 9:30 AM	34.00	7.90	10.90	9.70	0.00	10.90	4.30	9.70	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 9:45 AM	31.00	6.70	10.50	7.10	0.00	10.50	6.70	7.10	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 10:00 AM	34.00	7.20	0.00	6.80	0.00	0.00	9.40	6.80	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 10:15 AM	39.00	6.90	9.20	10.40	1.20	9.20	9.10	10.40	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 10:30 AM	33.00	6.00	0.00	8.50	0.00	0.00	9.20	8.50	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 10:45 AM	34.00	6.80	10.20	9.50	0.00	10.20	10.10	9.50	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 11:00 AM	45.00	6.90	10.20	10.60	0.40	10.20	10.80	10.60	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 11:15 AM	38.00	6.40	0.00	5.60	0.00	0.00	10.50	5.60	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 11:30 AM	41.00	7.40	9.40	5.70	0.00	9.40	9.20	5.70	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 11:45 AM	40.00	6.20	9.90	6.90	0.00	9.90	8.30	6.90	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 12:00 PM	44.00	5.40	8.80	9.20	0.40	8.80	8.00	9.20	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 12:15 PM	7.00	5.00	8.60	10.10	1.50	8.60	8.20	10.10	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 12:30 PM	10.00	4.60	8.70	9.50	0.80	8.70	7.70	9.50	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 12:45 PM	41.00	5.50	8.00	6.00	0.00	8.00	7.40	6.00	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 1:00 PM	40.00	5.70	8.00	9.40	1.40	8.00	5.80	9.40	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 1:15 PM	51.00	6.50	9.50	7.30	0.00	9.50	6.00	7.30	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 1:30 PM	37.00	6.80	7.90	4.90	0.00	7.90	4.70	4.90	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 1:45 PM	41.00	7.00	7.40	5.10	0.00	7.40	4.90	5.10	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 2:00 PM	30.00	7.00	0.00	5.30	0.00	0.00	5.10	5.30	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 2:15 PM	30.00	6.90	8.80	13.40	4.60	8.80	5.60	13.40	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 2:30 PM	30.00	5.90	8.40	11.90	3.50	8.40	5.60	11.90	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 2:45 PM	35.00	4.50	8.10	11.40	3.30	8.10	6.80	11.40	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 3:00 PM	49.00	5.60	8.20	8.00	0.00	8.20	7.70	8.00	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 3:15 PM	45.00	7.80	8.60	8.50	0.00	8.60	8.00	8.50	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 3:30 PM	42.00	6.10	9.20	5.30	0.00	9.20	8.70	5.30	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 3:45 PM	44.00	6.40	9.10	4.00	0.00	9.10	9.10	4.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 4:00 PM	44.00	6.60	9.30	3.80	0.00	9.30	7.90	3.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 4:15 PM	37.00	7.50	8.70	7.80	0.00	8.70	6.70	7.80	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 4:30 PM	30.00	5.90	9.00	9.90	0.90	9.00	6.90	9.90	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 4:45 PM	29.00	5.50	9.60	9.50	0.00	9.60	7.30	9.50	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 5:00 PM	36.00	7.40	8.50	6.60	0.00	8.50	7.90	6.60	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 5:15 PM	25.00	6.10	8.90	7.40	0.00	8.90	9.70	7.40	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 5:30 PM	43.00	6.40	8.30	6.70	0.00	8.30	16.80	6.70	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 5:45 PM	42.00	6.90	8.10	7.50	0.00	8.10	18.50	7.50	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 6:00 PM	29.00	7.30	8.00	7.30	0.00	8.00	17.90	7.30	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/13 6:15 PM	26.00	6.30	8.60	12.70	4.10	8.60	13.50	12.70	9.00								



US Army Corps
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Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
5-1-13 to 5-7-13

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	
5/4/13 2:15 AM	19.00	2.70	13.30	8.30	0.00	13.30	16.90	8.30	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 2:30 AM	3.00	1.60	14.70	7.50	0.00	14.70	15.60	7.50	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 2:45 AM	42.00	3.50	13.40	7.70	0.00	13.40	13.20	7.70	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 3:00 AM	39.00	2.70	12.40	8.30	0.00	12.40	12.70	8.30	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 3:15 AM	41.00	2.70	13.00	9.30	0.00	13.00	14.40	9.30	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 3:30 AM	44.00	2.50	15.30	10.00	0.00	15.30	20.40	10.00	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 3:45 AM	42.00	1.80	14.60	11.70	0.00	14.60	25.10	11.70	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 4:00 AM	9.00	1.90	15.00	12.70	0.00	15.00	17.90	12.70	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 4:15 AM	40.00	2.10	15.80	10.70	0.00	15.80	21.40	10.70	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 4:30 AM	50.00	3.10	16.10	10.10	0.00	16.10	21.00	10.10	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 4:45 AM	60.00	1.60	16.50	11.00	0.00	16.50	20.30	11.00	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 5:00 AM	42.00	2.00	18.60	11.40	0.00	18.60	23.80	11.40	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 5:15 AM	42.00	2.10	19.50	11.80	0.00	19.50	30.80	11.80	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 5:30 AM	45.00	2.10	18.30	13.10	0.00	18.30	31.60	13.10	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 5:45 AM	65.00	1.90	19.50	20.80	1.30	19.50	39.60	20.80	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 6:00 AM	53.00	1.50	20.40	27.00	6.60	20.40	38.30	27.00	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 6:15 AM	72.00	1.70	22.30	15.40	0.00	22.30	29.60	15.40	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 6:30 AM	68.00	1.60	24.60	14.90	0.00	24.60	37.70	14.90	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 6:45 AM	82.00	1.60	24.30	15.20	0.00	24.30	35.50	15.20	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 7:00 AM	77.00	1.80	24.20	24.40	0.20	24.20	40.50	24.40	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 7:15 AM	133.00	2.70	32.50	30.10	0.00	30.00	32.50	22.00	30.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 7:30 AM	128.00	2.80	31.00	33.60	2.60	29.70	31.00	27.20	33.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 7:45 AM	145.00	2.10	25.50	34.30	8.80	26.30	25.50	27.20	34.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 8:00 AM	133.00	2.80	22.90	38.80	15.90	22.60	22.90	22.30	38.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 8:15 AM	148.00	3.70	24.50	32.30	7.80	21.20	24.50	21.90	32.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 8:30 AM	156.00	4.20	24.30	25.60	1.30	19.60	24.30	22.00	25.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 8:45 AM	155.00	5.10	17.90	21.60	3.70	18.20	17.90	18.90	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 9:00 AM	160.00	3.90	15.80	15.40	0.00	16.00	15.80	20.20	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 9:15 AM	157.00	4.50	13.80	13.50	0.00	15.30	13.80	14.90	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 9:30 AM	154.00	4.50	12.70	13.90	1.20	14.40	12.70	13.80	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 9:45 AM	151.00	5.60	10.80	11.00	0.20	14.00	10.80	12.20	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 10:00 AM	151.00	4.90	10.90	12.20	1.30	13.40	10.90	13.10	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 10:15 AM	154.00	4.40	11.00	12.90	1.90	13.30	11.00	11.40	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 10:30 AM	174.00	4.40	11.00	12.80	1.80	13.30	11.00	11.90	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 10:45 AM	150.00	4.60	11.90	13.60	1.70	13.40	11.90	12.40	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 11:00 AM	174.00	5.00	12.40	13.20	0.80	13.40	12.40	12.70	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 11:15 AM	158.00	3.30	12.40	13.20	0.80	13.30	12.40	13.50	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 11:30 AM	138.00	4.10	13.10	13.00	0.00	13.10	13.10	16.20	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 11:45 AM	119.00	3.50	13.00	11.70	0.00	13.10	13.00	14.40	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 12:00 PM	147.00	2.90	12.20	11.90	0.00	12.80	12.20	16.00	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 12:15 PM	112.00	4.60	11.60	11.00	0.00	12.40	11.60	14.20	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 12:30 PM	80.00	5.60	11.70	14.40	2.70	11.70	10.80	14.40	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 12:45 PM	112.00	4.70	10.50	10.50	0.00	11.70	10.50	13.80	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 1:00 PM	33.00	6.90	11.00	13.30	2.30	11.00	10.50	13.30	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 1:15 PM	32.00	7.10	11.90	15.30	3.40	11.90	12.20	15.30	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 1:30 PM	36.00	7.20	12.40	15.40	3.00	12.40	13.90	15.40	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 1:45 PM	29.00	7.90	14.10	15.60	1.50	14.10	13.50	15.60	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 2:00 PM	32.00	6.50	0.00	14.70	0.00	0.00	15.10	14.70	26.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 2:15 PM	40.00	6.70	19.80	56.80	37.00	19.80	33.70	56.80	153.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 2:30 PM	33.00	6.40	16.60	25.50	8.90	16.60	23.80	25.50	30.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 2:45 PM	27.00	6.00	18.10	30.80	12.70	18.10	22.70	30.80	37.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 3:00 PM	36.00	6.10	22.30	44.60	22.30	22.30	37.60	44.60	32.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 3:15 PM	53.00	8.20	20.70	36.90	16.20	20.70	38.20	36.90	34.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 3:30 PM	45.00	5.70	22.40	35.90	13.50	22.40	38.20	35.90	37.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 3:45 PM	61.00	7.20	26.60	32.80	6.20	26.60	31.40	32.80	37.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 4:00 PM	61.00	5.60	24.20	38.90	14.70	24.20	43.80	38.90	39.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 4:15 PM	69.00	4.70	24.20	32.30	8.10	24.20	39.70	32.30	42.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 4:30 PM	74.00	5.50	0.00	45.80	0.00	0.00	42.00	45.80	75.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 4:45 PM	98.00	2.90	35.60	33.30	0.00	24.60	35.60	33.00	33.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 5:00 PM	87.00	3.60	30.70	35.70	5.00	30.70	55.60	35.70	44.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 5:15 PM	124.00	2.50	87.90	41.90	0.00	32.60	87.90	64.80	41.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 5:30 PM	128.00	1.60	48.20	68.00	19.80	39.30	48.20	49.20	68.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 5:45 PM	74.00	4.50	53.30	87.10	33.80	53.30	28.90	87.10	142.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 6:00 PM	78.00	3.40	41.00	30.80	0.00	41.00	22.10	30.80	204.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 6:15 PM	98.00	2.30	23.90	61.30	37.40	28.10	23.90	31.60	61.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/13 6:30 PM	84.00	2.40	28.40	23.80	0.00	28.40	22.10	23.80	34.00	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	
5/5/13 3:00 AM	38.00	4.20	23.00	16.70	0.00	23.00	20.40	16.70	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 3:15 AM	43.00	4.10	22.20	16.70	0.00	22.20	19.20	16.70	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 3:30 AM	19.00	2.20	23.90	16.60	0.00	23.90	19.60	16.60	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 3:45 AM	18.00	4.50	22.50	14.10	0.00	22.50	20.90	14.10	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 4:00 AM	7.00	4.10	21.40	12.60	0.00	21.40	20.10	12.60	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 4:15 AM	10.00	4.80	21.60	13.60	0.00	21.60	16.20	13.60	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 4:30 AM	10.00	4.20	21.70	11.80	0.00	21.70	16.80	11.80	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 4:45 AM	16.00	4.80	21.60	11.90	0.00	21.60	17.30	11.90	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 5:00 AM	11.00	2.40	21.90	12.60	0.00	21.90	18.50	12.60	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 5:15 AM	47.00	2.20	21.90	13.00	0.00	21.90	16.90	13.00	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 5:30 AM	12.00	2.10	21.30	13.90	0.00	21.30	17.20	13.90	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 5:45 AM	32.00	2.70	21.30	15.50	0.00	21.30	16.80	15.50	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 6:00 AM	26.00	1.90	0.00	15.50	0.00	0.00	16.20	15.50	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 6:15 AM	27.00	2.50	22.60	17.40	0.00	22.60	16.40	17.40	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 6:30 AM	30.00	3.90	22.60	17.00	0.00	22.60	16.30	17.00	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 6:45 AM	31.00	3.10	22.10	17.90	0.00	22.10	16.00	17.90	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 7:00 AM	35.00	3.40	20.00	17.90	0.00	20.00	16.50	17.90	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 7:15 AM	36.00	3.50	20.10	18.20	0.00	20.10	24.10	18.20	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 7:30 AM	35.00	3.00	19.40	14.30	0.00	19.40	18.00	14.30	26.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 7:45 AM	34.00	3.40	20.10	13.20	0.00	20.10	18.50	13.20	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 8:00 AM	45.00	3.10	20.10	13.20	0.00	20.10	23.30	13.20	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 8:15 AM	41.00	3.50	21.70	12.50	0.00	21.70	28.60	12.50	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 8:30 AM	45.00	3.20	20.00	14.90	0.00	20.00	28.40	14.90	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 8:45 AM	38.00	2.60	19.90	15.30	0.00	19.90	29.90	15.30	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 9:00 AM	36.00	3.00	19.10	17.70	0.00	19.10	29.90	17.70	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 9:15 AM	43.00	3.60	18.70	20.30	1.60	18.70	29.80	20.30	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 9:30 AM	30.00	4.10	18.70	19.10	0.40	18.70	27.90	19.10	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 9:45 AM	0.00	3.80	17.30	14.80	0.00	17.30	23.90	14.80	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 10:00 AM	56.00	3.40	16.80	17.40	0.60	16.80	22.60	17.40	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 10:15 AM	41.00	4.10	16.70	19.00	2.30	16.70	15.60	19.00	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 10:30 AM	28.00	5.10	16.20	17.80	1.60	16.20	15.00	17.80	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 10:45 AM	47.00	6.00	17.60	13.80	0.00	17.60	18.20	13.80	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 11:00 AM	46.00	4.80	16.80	13.80	0.00	16.80	14.80	13.80	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 11:15 AM	29.00	5.40	0.00	15.50	0.00	0.00	16.20	15.50	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 11:30 AM	36.00	5.70	22.10	16.60	0.00	22.10	13.80	16.60	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 11:45 AM	25.00	4.70	22.10	13.90	0.00	22.10	13.90	13.90	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 12:00 PM	22.00	7.30	17.30	14.80	0.00	17.30	14.10	14.80	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 12:15 PM	20.00	6.80	17.10	16.80	0.00	17.10	13.60	16.80	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 12:30 PM	22.00	5.90	18.70	16.70	0.00	18.70	14.00	16.70	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 12:45 PM	33.00	6.60	19.50	16.80	0.00	19.50	15.80	16.80	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 1:00 PM	18.00	6.70	18.10	18.50	0.40	18.10	14.60	18.50	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 1:15 PM	19.00	7.00	23.20	21.50	0.00	23.20	16.60	21.50	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 1:30 PM	17.00	6.70	20.30	21.30	1.00	20.30	17.00	21.30	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 1:45 PM	23.00	7.80	21.90	17.80	0.00	21.90	16.50	17.80	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 2:00 PM	17.00	7.20	23.30	18.50	0.00	23.30	16.50	18.50	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 2:15 PM	19.00	7.20	20.80	16.70	0.00	20.80	21.00	16.70	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 2:30 PM	21.00	7.70	18.90	17.10	0.00	18.90	25.10	17.10	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 2:45 PM	17.00	8.20	21.00	17.80	0.00	21.00	21.60	17.80	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 3:00 PM	24.00	8.90	21.00	17.80	0.00	21.00	20.10	17.80	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 3:15 PM	27.00	8.70	20.10	18.20	0.00	20.10	21.00	18.20	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 3:30 PM	24.00	7.30	22.60	17.60	0.00	22.60	21.20	17.60	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 3:45 PM	20.00	8.00	22.60	18.10	0.00	22.60	25.70	18.10	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 4:00 PM	18.00	9.20	22.60	17.70	0.00	22.60	27.10	17.70	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 4:15 PM	24.00	8.00	23.30	19.20	0.00	23.30	32.70	19.20	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 4:30 PM	28.00	6.80	23.20	20.60	0.00	23.20	33.60	20.60	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 4:45 PM	40.00	8.30	21.40	24.20	2.80	21.40	33.70	24.20	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 5:00 PM	38.00	9.70	22.20	21.50	0.00	22.20	31.40	21.50	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 5:15 PM	45.00	4.50	0.00	21.00	0.00	0.00	31.40	21.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 5:30 PM	44.00	5.70	23.30	21.00	0.00	23.30	30.50	21.00	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 5:45 PM	48.00	5.80	24.00	21.70	0.00	24.00	23.60	21.70	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 6:00 PM	36.00	4.80	26.60	20.80	0.00	26.60	20.40	20.80	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 6:15 PM	48.00	4.30	27.30	21.50	0.00	27.30	20.00	21.50	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 6:30 PM	34.00	3.80	23.90	17.10	0.00	23.90	17.70	17.10	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 6:45 PM	38.00	5.20	23.90	15.30	0.00	23.90	18.10	15.30	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 7:00 PM	36.00	4.00	21.20	20.80	0.00	21.20	16.40	20.80	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/5/13 7:15 PM	10.00	3.40	19.20	16.20	0.00	19.20	17.50	16.20	22.50	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
5-1-13 to 5-7-13

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	
5/6/13 3:45 AM	9.00	5.20	17.90	9.20	0.00	17.90	14.90	9.20	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 4:00 AM	8.00	4.50	18.10	9.40	0.00	18.10	15.90	9.40	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 4:15 AM	9.00	4.40	17.60	12.80	0.00	17.60	15.30	12.80	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 4:30 AM	11.00	5.40	17.30	9.30	0.00	17.30	14.80	9.30	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 4:45 AM	52.00	3.30	16.70	9.20	0.00	16.70	14.30	9.20	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 5:00 AM	31.00	2.20	16.50	9.10	0.00	16.50	13.70	9.10	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 5:15 AM	3.00	2.90	15.80	9.40	0.00	15.80	14.40	9.40	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 5:30 AM	22.00	1.60	15.70	9.90	0.00	15.70	14.60	9.90	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 5:45 AM	3.00	3.30	17.40	10.60	0.00	17.40	17.40	10.60	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 6:00 AM	8.00	2.50	0.00	11.10	0.00	0.00	15.10	11.10	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 6:15 AM	0.00	2.30	17.50	11.30	0.00	17.50	15.60	11.30	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 6:30 AM	39.00	3.30	19.60	12.70	0.00	19.60	16.40	12.70	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 6:45 AM	0.00	0.00	0.00	0.00	0.00	0.00	16.00	12.70	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 7:00 AM	27.00	2.70	19.50	14.00	0.00	19.50	15.90	14.00	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 7:15 AM	23.00	2.80	20.50	14.00	0.00	20.50	18.80	14.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 7:30 AM	55.00	3.50	19.60	19.80	0.20	19.60	17.30	19.80	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 7:45 AM	41.00	3.60	18.30	15.50	0.00	18.30	13.40	15.50	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 8:00 AM	43.00	4.50	18.10	17.80	0.00	18.10	14.90	17.80	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 8:15 AM	45.00	4.10	18.10	18.10	0.00	18.10	12.80	18.10	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 8:30 AM	49.00	4.50	19.20	15.30	0.00	19.20	15.70	15.30	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 8:45 AM	46.00	3.60	0.00	22.20	0.00	0.00	13.20	22.20	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 9:00 AM	33.00	4.20	18.80	23.00	4.20	18.80	13.90	23.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 9:15 AM	31.00	2.90	17.90	25.80	7.90	17.90	13.70	25.80	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 9:30 AM	39.00	3.40	18.10	19.60	1.50	18.10	14.40	19.60	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 9:45 AM	24.00	3.60	17.70	22.60	4.90	17.70	20.10	22.60	28.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 10:00 AM	41.00	3.90	18.90	20.70	1.80	18.90	22.20	20.70	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 10:15 AM	33.00	3.90	18.90	24.10	5.20	18.90	22.90	24.10	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 10:30 AM	51.00	3.90	18.30	19.40	1.10	18.30	23.80	19.40	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 10:45 AM	35.00	3.30	21.00	24.00	3.00	21.00	19.90	24.00	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 11:00 AM	57.00	4.40	21.00	18.30	0.00	21.00	18.80	18.30	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 11:15 AM	50.00	4.20	20.40	23.40	3.00	20.40	25.90	23.40	32.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 11:30 AM	53.00	4.30	21.90	36.00	14.10	21.90	32.20	36.00	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 11:45 AM	44.00	3.60	24.20	26.90	2.70	24.20	30.20	26.90	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 12:00 PM	51.00	4.90	24.20	23.50	0.00	24.20	26.10	23.50	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 12:15 PM	40.00	5.20	22.70	27.10	4.40	22.70	25.20	27.10	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 12:30 PM	48.00	5.80	24.10	26.80	2.70	24.10	22.40	26.80	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 12:45 PM	39.00	5.80	24.70	28.00	3.30	24.70	29.30	28.00	33.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 1:00 PM	35.00	5.10	23.70	28.50	4.80	23.70	24.20	28.50	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 1:15 PM	46.00	5.20	0.00	33.80	0.00	0.00	31.30	33.80	33.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 1:30 PM	45.00	5.80	27.50	30.70	3.20	27.50	30.20	30.70	33.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 1:45 PM	49.00	5.50	24.70	31.70	7.00	24.70	32.00	31.70	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 2:00 PM	42.00	5.10	26.80	40.20	13.40	26.80	42.20	40.20	28.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 2:15 PM	50.00	5.70	26.60	34.20	7.60	26.60	37.80	34.20	28.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 2:30 PM	48.00	6.30	29.30	38.00	8.70	29.30	39.40	38.00	35.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 2:45 PM	22.00	3.90	27.40	34.50	7.10	27.40	49.50	34.50	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 3:00 PM	38.00	5.10	29.00	35.90	6.90	29.00	72.80	35.90	28.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 3:15 PM	41.00	5.40	30.20	34.00	3.80	30.20	60.60	34.00	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 3:30 PM	9.00	4.00	28.40	38.20	9.80	28.40	35.40	38.20	29.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 3:45 PM	0.00	5.40	28.40	37.20	8.80	28.40	44.90	37.20	29.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 4:00 PM	4.00	5.40	30.40	32.90	2.50	30.40	46.40	32.90	30.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 4:15 PM	1.00	5.30	30.80	34.80	4.00	30.80	55.10	34.80	33.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 4:30 PM	4.00	5.10	46.60	33.50	0.00	46.60	57.50	33.50	37.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 4:45 PM	7.00	4.60	32.90	31.90	0.00	32.90	45.80	31.90	35.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 5:00 PM	11.00	4.40	32.90	31.80	0.00	32.90	42.20	31.80	42.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 5:15 PM	3.00	4.30	34.20	35.00	0.80	34.20	45.00	35.00	42.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 5:30 PM	7.00	3.10	36.10	36.50	0.40	36.10	48.50	36.50	43.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 5:45 PM	3.00	4.00	36.00	33.50	0.00	36.00	47.40	33.50	39.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 6:00 PM	11.00	4.40	36.00	32.00	0.00	36.00	39.10	32.00	36.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 6:15 PM	45.00	4.60	37.60	32.00	0.00	37.60	39.70	32.00	36.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 6:30 PM	42.00	4.90	34.20	32.20	0.00	34.20	37.70	32.20	32.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 6:45 PM	48.00	4.10	34.80	33.30	0.00	34.80	36.60	33.30	32.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 7:00 PM	45.00	3.70	31.00	26.50	0.00	31.00	29.60	26.50	26.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 7:15 PM	46.00	3.60	31.80	25.60	0.00	31.80	25.80	25.60	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 7:30 PM	52.00	4.00	29.50	23.10	0.00	29.50	23.40	23.10	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 7:45 PM	42.00	2.90	27.60	21.40	0.00	27.60	19.70	21.40	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/13 8:00 PM	21.00	2.20	27.50	26.30	0.00	27.50	17.90	26.30	17.60	0.00	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
5-1-13 to 5-7-13

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
5/7/13 4:30 AM	1.00	3.50	4990.60	28.50	0.00	4990.60	21.20	28.50	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 4:45 AM	4.00	4.00	4990.60	18.40	0.00	4990.60	12.60	18.40	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 5:00 AM	5.00	4.20	4990.60	13.80	0.00	4990.60	23.50	13.80	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 5:15 AM	10.00	3.80	4990.70	13.90	0.00	4990.70	17.60	13.90	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 5:30 AM	38.00	3.40	4990.50	11.30	0.00	4990.50	11.00	11.30	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 5:45 AM	40.00	3.90	4990.60	9.90	0.00	4990.60	11.90	9.90	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 6:00 AM	51.00	4.50	4990.60	9.60	0.00	4990.60	11.90	9.60	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 6:15 AM	40.00	3.90	4990.60	9.40	0.00	4990.60	12.80	9.40	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 6:30 AM	33.00	3.00	4990.50	13.20	0.00	4990.50	13.60	13.20	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 6:45 AM	25.00	3.40	4990.60	15.00	0.00	4990.60	14.60	15.00	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 7:00 AM	34.00	2.80	4990.60	14.60	0.00	4990.60	24.30	14.60	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 7:15 AM	37.00	2.60	4990.60	15.70	0.00	4990.60	14.20	15.70	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 7:30 AM	41.00	3.80	4990.60	20.70	0.00	4990.60	18.50	20.70	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 7:45 AM	46.00	4.00	4990.60	17.90	0.00	4990.60	14.70	17.90	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 8:00 AM	58.00	3.30	4990.60	13.50	0.00	4990.60	14.90	13.50	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 8:15 AM	33.00	3.50	4990.60	22.30	0.00	4990.60	19.10	22.30	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 8:30 AM	7.00	2.60	4990.60	18.90	0.00	4990.60	20.40	18.90	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 8:45 AM	9.00	3.60	4990.60	19.90	0.00	4990.60	28.20	19.90	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 9:00 AM	2.00	3.90	4990.60	19.60	0.00	4990.60	53.10	19.60	27.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 9:15 AM	8.00	5.80	4990.60	25.60	0.00	4990.60	49.70	25.60	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 9:30 AM	4.00	5.20	4990.60	22.30	0.00	4990.60	23.90	22.30	27.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 9:45 AM	9.00	4.40	4990.60	17.90	0.00	4990.60	24.00	17.90	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 10:00 AM	4.00	5.00	4990.50	12.70	0.00	4990.50	15.00	12.70	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 10:15 AM	19.00	4.10	4990.60	14.70	0.00	4990.60	13.80	14.70	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 10:30 AM	29.00	3.20	4990.60	16.20	0.00	4990.60	17.70	16.20	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 10:45 AM	3.00	4.20	4990.60	18.60	0.00	4990.60	22.30	18.60	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 11:00 AM	19.00	3.70	4990.60	16.90	0.00	4990.60	23.80	16.90	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 11:15 AM	6.00	4.10	4990.60	18.90	0.00	4990.60	24.40	18.90	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 11:30 AM	2.00	3.70	4990.60	24.90	0.00	4990.60	49.10	24.90	31.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 11:45 AM	18.00	3.60	4990.60	27.20	0.00	4990.60	32.30	27.20	31.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 12:00 PM	359.00	3.20	31.50	78.30	46.80	4990.60	78.30	43.30	31.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 12:15 PM	1.00	4.20	4990.60	24.60	0.00	4990.60	31.50	24.60	28.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 12:30 PM	3.00	3.90	4990.60	27.30	0.00	4990.60	34.90	27.30	28.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 12:45 PM	14.00	4.40	4990.60	30.00	0.00	4990.60	48.00	30.00	29.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 1:00 PM	8.00	4.00	4990.60	31.00	0.00	4990.60	33.80	31.00	31.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 1:15 PM	16.00	4.40	4990.60	29.80	0.00	4990.60	34.00	29.80	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 1:30 PM	19.00	4.30	4990.60	22.60	0.00	4990.60	31.80	22.60	29.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 1:45 PM	39.00	4.40	4990.60	28.60	0.00	4990.60	39.90	28.60	32.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 2:00 PM	27.00	4.00	4990.60	27.70	0.00	4990.60	44.10	27.70	41.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 2:15 PM	23.00	4.10	4990.60	26.50	0.00	4990.60	41.60	26.50	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 2:30 PM	13.00	4.80	4990.60	27.40	0.00	4990.60	124.80	27.40	37.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 2:45 PM	12.00	4.60	4990.60	39.50	0.00	4990.60	73.80	39.50	34.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 3:00 PM	15.00	5.30	4990.60	38.00	0.00	4990.60	104.10	38.00	37.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 3:15 PM	48.00	5.00	4988.20	34.20	0.00	4988.20	84.40	34.20	34.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 3:30 PM	51.00	4.70	4987.90	31.00	0.00	4987.90	117.50	31.00	36.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 3:45 PM	40.00	4.50	4987.90	202.30	0.00	4987.90	46.70	202.30	33.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 4:00 PM	50.00	3.70	4988.00	31.50	0.00	4988.00	56.20	31.50	34.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 4:15 PM	44.00	4.80	4987.90	33.00	0.00	4987.90	47.50	33.00	34.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 4:30 PM	47.00	5.20	4988.00	55.90	0.00	4988.00	73.80	55.90	40.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 4:45 PM	52.00	4.80	4988.00	40.50	0.00	4988.00	36.20	40.50	56.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 5:00 PM	45.00	3.50	4988.00	38.00	0.00	4988.00	46.90	38.00	44.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 5:15 PM	55.00	4.00	4988.00	38.60	0.00	4988.00	41.30	38.60	40.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 5:30 PM	54.00	3.80	4988.00	32.60	0.00	4988.00	33.70	32.60	59.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 5:45 PM	60.00	3.90	4988.00	28.60	0.00	4988.00	32.00	28.60	53.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 6:00 PM	69.00	3.70	4988.00	28.80	0.00	4988.00	33.90	28.80	42.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 6:15 PM	49.00	3.60	4990.20	31.90	0.00	4990.20	29.10	31.90	47.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 6:30 PM	41.00	3.50	4990.60	28.20	0.00	4990.60	27.70	28.20	36.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 6:45 PM	50.00	3.20	4990.60	30.90	0.00	4990.60	32.50	30.90	42.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 7:00 PM	41.00	3.00	4990.60	25.00	0.00	4990.60	35.80	25.00	38.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 7:15 PM	56.00	2.40	4990.60	30.70	0.00	4990.60	26.60	30.70	35.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 7:30 PM	0.00	0.00	0.00	0.00	0.00	4990.60	29.70	30.90	36.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 7:45 PM	42.00	1.90	4990.60	32.30	0.00	4990.60	36.10	32.30	34.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 8:00 PM	65.00	3.00	4990.60	36.70	0.00	4990.60	106.00	36.70	28.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 8:15 PM	82.00	1.90	4990.60	101.40	0.00	4990.60	142.10	101.40	52.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 8:30 PM	122.00	1.60	98.00	58.70	0.00	4990.60	98.00	84.70	58.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 8:45 PM	158.00	1.50	69.00	78.70	9.70	4990.60	69.00	49.30	78.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 9:00 PM	160.00	1.70	65.30	80.50	15.20	4990.60	65.30	60.90	80.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/7/13 9:15 PM	83.00	2.00	4990.60	81.40	0.00	4990.60	71.20	81.40	69.90	0.00	0.0					