



**US Army Corps
of Engineers®**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
June 2015

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
6/1/15 12:00 AM	30.00	5.50	3.40	8.20	4.80	3.40	4.20	8.20	4.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 12:15 AM	30.00	6.00	27.80	15.20	0.00	27.80	7.90	15.20	4.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 12:30 AM	44.00	3.40	9.70	18.80	9.10	9.70	14.70	18.80	4.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 12:45 AM	49.00	2.80	0.00	16.60	0.00	0.00	10.50	16.60	3.10	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 1:00 AM	66.00	3.30	5.50	14.60	9.10	5.50	8.60	14.60	2.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 1:15 AM	57.00	2.50	3.20	11.20	8.00	3.20	6.40	11.20	2.70	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 1:30 AM	51.00	2.70	4.90	11.10	6.20	4.90	7.10	11.10	3.10	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 1:45 AM	44.00	3.90	6.60	14.00	7.40	6.60	11.50	14.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 2:00 AM	46.00	3.70	13.00	22.40	9.40	13.00	13.30	22.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 2:15 AM	26.00	5.20	15.40	20.80	5.40	15.40	18.10	20.80	4.70	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 2:30 AM	46.00	3.60	0.00	19.50	0.00	0.00	13.60	19.50	5.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 2:45 AM	48.00	3.90	16.70	20.60	3.90	16.70	16.00	20.60	6.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 3:00 AM	54.00	2.90	8.80	20.70	11.90	8.80	14.20	20.70	6.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 3:15 AM	49.00	3.20	8.80	18.40	9.60	8.80	14.20	18.40	6.10	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 3:30 AM	55.00	3.50	6.10	15.00	8.90	6.10	11.10	15.00	5.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 3:45 AM	51.00	4.50	7.10	17.00	9.90	7.10	11.90	17.00	5.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 4:00 AM	27.00	4.20	0.00	23.70	0.00	0.00	17.80	23.70	6.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 4:15 AM	32.00	4.60	12.30	23.30	11.00	12.30	21.60	23.30	6.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 4:30 AM	52.00	4.30	20.40	22.70	2.30	20.40	15.20	22.70	6.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 4:45 AM	41.00	4.10	16.00	25.70	9.70	16.00	18.80	25.70	7.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 5:00 AM	29.00	3.30	11.30	16.60	5.30	11.30	14.60	16.60	7.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 5:15 AM	46.00	4.30	7.40	14.80	7.40	7.40	10.70	14.80	7.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 5:30 AM	41.00	3.10	0.00	14.50	0.00	0.00	14.80	14.50	8.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 5:45 AM	49.00	3.00	11.40	20.50	9.10	11.40	21.40	20.50	8.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 6:00 AM	35.00	4.30	11.70	17.00	5.30	11.70	20.00	17.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 6:15 AM	50.00	3.00	7.20	16.70	9.50	7.20	21.60	16.70	4.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 6:30 AM	52.00	3.70	9.80	15.70	5.90	9.80	22.00	15.70	4.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 6:45 AM	58.00	4.50	9.50	15.50	6.00	9.50	21.40	15.50	5.10	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 7:00 AM	49.00	5.00	15.00	18.50	3.50	15.00	31.00	18.50	5.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 7:15 AM	45.00	4.10	16.10	20.30	4.20	16.10	37.20	20.30	5.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 7:30 AM	42.00	4.50	13.40	33.70	20.30	13.40	34.50	33.70	6.10	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 7:45 AM	43.00	3.40	64.30	22.60	0.00	64.30	17.00	22.60	6.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 8:00 AM	35.00	4.80	17.70	17.10	0.00	17.70	15.50	17.10	6.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 8:15 AM	28.00	4.10	12.30	19.90	7.60	12.30	26.20	19.90	5.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 8:30 AM	25.00	6.50	12.20	23.10	10.90	12.20	20.20	23.10	5.70	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 8:45 AM	27.00	5.90	17.50	33.80	16.30	17.50	32.00	33.80	6.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 9:00 AM	25.00	6.60	19.90	19.80	0.00	19.90	21.90	19.80	7.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 9:15 AM	46.00	6.10	0.00	21.60	0.00	0.00	19.60	21.60	7.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 9:30 AM	17.00	6.30	12.40	15.50	3.10	12.40	17.60	15.50	7.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 9:45 AM	22.00	6.30	15.00	15.40	0.40	15.00	13.10	15.40	8.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 10:00 AM	25.00	6.90	11.20	12.50	1.30	11.20	11.90	12.50	8.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 10:15 AM	36.00	5.00	11.50	11.40	0.00	11.50	10.90	11.40	9.10	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 10:30 AM	24.00	5.90	12.60	10.50	0.00	12.60	15.00	10.50	9.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 10:45 AM	27.00	5.60	7.80	10.10	2.30	7.80	11.10	10.10	10.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 11:00 AM	39.00	5.80	9.80	9.30	0.00	9.80	9.50	9.30	10.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 11:15 AM	31.00	5.30	0.00	9.30	0.00	0.00	9.50	9.30	9.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 11:30 AM	39.00	5.50	0.00	9.30	0.00	0.00	13.80	9.30	8.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 11:45 AM	30.00	5.80	9.20	9.70	0.50	9.20	9.00	9.70	9.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 12:00 PM	27.00	6.40	0.00	9.30	0.00	0.00	9.30	9.30	8.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 12:15 PM	35.00	6.50	5.60	10.80	5.20	5.60	9.20	10.80	9.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 12:30 PM	18.00	7.90	0.00	9.00	0.00	0.00	11.00	9.00	10.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 12:45 PM	38.00	6.70	5.10	8.90	3.80	5.10	9.40	8.90	10.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 1:00 PM	42.00	6.70	6.20	11.00	4.80	6.20	10.70	11.00	9.70	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 1:15 PM	30.00	6.40	6.10	10.40	4.30	6.10	10.90	10.40	11.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 1:30 PM	32.00	7.60	7.90	13.60	5.70	7.90	12.70	13.60	10.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 1:45 PM	32.00	7.30	8.60	10.20	1.60	8.60	20.50	10.20	11.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 2:00 PM	23.00	6.40	6.50	11.10	4.60	6.50	14.50	11.10	12.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 2:15 PM	27.00	7.40	6.50	11.10	4.60	6.50	13.00	11.10	12.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 2:30 PM	31.00	6.60	8.60	9.30	0.70	8.60	13.00	9.30	10.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 2:45 PM	37.00	6.70	11.60	9.50	0.00	11.60	13.80	9.50	12.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 3:00 PM	26.00	5.60	12.40	10.00	0.00	12.40	14.60	10.00	14.10	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 3:15 PM	20.00	7.60	12.30	9.00	0.00	12.30	11.70	9.00	12.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 3:30 PM	21.00	8.20	11.30	8.20	0.00	11.30	11.60	8.20	11.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 3:45 PM	27.00	7.20	0.00	8.20	0.00	0.00	10.40	8.20	12.10	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 4:00 PM	33.00	6.70	15.00	11.60	0.00	15.00	11.70	11.60	13.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 4:15 PM	21.00	8.10	16.20	13.50	0.00	16.20	10.30	13.50	10.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 4:30 PM	22.00	8.40	40.20	9.00	0.00	40.20	10.70	9.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 4:45 PM	23.00	8.40	24.30	8.60	0.00	24.30	10.80	8.60	10.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 5:00 PM	22.00	7.80	26.20	7.90	0.00	26.20	11.40	7.90	9.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/1/15 5:15 PM	20.00	8.10	0.00	10.20	0.00	0.00	11.20	10.20	8.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 12:00 AM	7.00	2.50	12.40	8.80	0.00	12.40	9.90	8.80	8.10	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 12:15 AM	353.00	2.80	6.90	8.00	1.10	5.40	8.00	9.10	6.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 12:30 AM	20.00	2.10	5.00	8.30	3.30	5.00	8.50	8.30	6.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 12:45 AM	255.00	1.20	8.90	4.90	0.00	4.90	9.20	8.90	6.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15																



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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
6/2/15 7:45 AM	146.00	1.50	21.60	6.00	0.00	25.00	21.60	19.70	6.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 8:00 AM	189.00	2.60	18.50	32.80	14.30	32.80	21.60	18.50	6.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 8:15 AM	146.00	1.50	22.30	7.40	0.00	29.80	22.30	19.20	7.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 8:30 AM	207.00	1.90	20.50	25.70	5.20	25.70	21.70	20.50	7.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 8:45 AM	157.00	1.60	24.50	6.40	0.00	26.00	24.50	21.40	6.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 9:00 AM	161.00	1.20	24.00	5.90	0.00	25.50	24.00	21.60	5.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 9:15 AM	302.00	0.30	6.00	24.00	18.00	27.20	24.00	20.50	6.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 9:30 AM	124.00	2.20	26.70	6.00	0.00	24.30	26.70	18.90	6.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 9:45 AM	47.00	1.50	25.20	18.80	0.00	25.20	20.70	18.80	6.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 10:00 AM	352.00	3.20	6.80	18.20	11.40	20.10	18.20	17.30	6.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 10:15 AM	357.00	2.80	7.70	18.50	10.80	21.40	18.50	15.60	7.70	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 10:30 AM	14.00	2.90	19.90	14.50	0.00	19.90	16.80	14.50	8.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 10:45 AM	23.00	2.90	21.90	12.90	0.00	21.90	17.30	12.90	9.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 11:00 AM	55.00	1.50	36.70	16.80	0.00	36.70	22.00	16.80	10.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 11:15 AM	114.00	3.40	29.10	10.50	0.00	44.90	29.10	19.40	10.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 11:30 AM	85.00	2.60	61.80	25.10	0.00	61.80	33.60	25.10	10.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 11:45 AM	74.00	4.50	0.00	29.00	0.00	0.00	64.40	29.00	10.70	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 12:00 PM	52.00	5.30	55.80	37.10	0.00	55.80	39.20	37.10	9.70	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 12:15 PM	63.00	3.90	53.60	19.50	0.00	53.60	18.30	19.50	11.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 12:30 PM	60.00	6.50	22.20	16.00	0.00	22.20	24.00	16.00	12.10	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 12:45 PM	74.00	4.70	39.00	11.60	0.00	39.00	13.70	11.60	12.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 1:00 PM	54.00	4.20	37.00	19.20	0.00	37.00	21.50	19.20	15.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 1:15 PM	25.00	5.90	32.30	23.90	0.00	32.30	27.40	23.90	12.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 1:30 PM	29.00	6.20	37.50	21.20	0.00	37.50	24.90	21.20	14.70	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 1:45 PM	44.00	4.90	37.10	26.70	0.00	37.10	23.60	26.70	17.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 2:00 PM	58.00	4.30	38.60	28.50	0.00	38.60	30.70	28.50	15.10	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 2:15 PM	61.00	2.90	0.00	27.50	0.00	0.00	46.80	27.50	15.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 2:30 PM	21.00	5.30	32.70	26.90	0.00	32.70	34.20	26.90	16.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 2:45 PM	21.00	5.30	26.20	25.90	0.00	26.20	31.00	25.90	19.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 3:00 PM	21.00	6.00	22.00	25.20	3.20	22.00	30.00	25.20	17.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 3:15 PM	16.00	5.90	0.00	28.00	0.00	0.00	32.60	28.00	16.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 3:30 PM	25.00	6.10	26.40	27.90	1.50	26.40	34.30	27.90	16.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 3:45 PM	21.00	5.50	36.60	29.10	0.00	36.60	39.70	29.10	15.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 4:00 PM	23.00	5.90	37.50	29.70	0.00	37.50	30.80	29.70	13.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 4:15 PM	31.00	4.60	36.30	31.00	0.00	36.30	26.30	31.00	14.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 4:30 PM	55.00	4.10	44.80	31.30	0.00	44.80	36.20	31.30	16.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 4:45 PM	42.00	4.60	27.90	29.20	1.30	27.90	27.00	29.20	16.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 5:00 PM	44.00	4.20	34.10	29.20	0.00	34.10	26.60	29.20	14.10	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 5:15 PM	25.00	4.30	30.10	29.70	0.00	30.10	32.50	29.70	13.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 5:30 PM	23.00	3.60	27.90	33.80	5.90	27.90	43.40	33.80	13.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 5:45 PM	26.00	5.10	29.60	36.30	6.70	29.60	54.70	36.30	13.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 6:00 PM	35.00	4.40	36.60	29.10	0.00	36.60	46.60	29.10	17.10	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 6:15 PM	63.00	3.60	58.00	45.40	0.00	58.00	49.80	45.40	18.10	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 6:30 PM	53.00	3.60	55.90	41.90	0.00	55.90	53.30	41.90	17.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 6:45 PM	75.00	4.80	27.00	37.60	10.60	27.00	34.80	37.60	15.70	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 7:00 PM	78.00	3.60	28.70	33.50	4.80	28.70	41.00	33.50	13.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 7:15 PM	64.00	3.60	25.30	34.70	9.40	25.30	48.80	34.70	16.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 7:30 PM	66.00	3.90	40.00	47.20	7.20	40.00	51.80	47.20	18.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 7:45 PM	65.00	4.30	34.10	42.60	8.50	34.10	44.80	42.60	17.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 8:00 PM	80.00	2.00	61.10	45.80	0.00	61.10	57.00	45.80	26.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 8:15 PM	73.00	2.60	76.80	44.30	0.00	76.80	52.90	44.30	33.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 8:30 PM	68.00	2.40	44.70	133.70	89.00	44.70	53.80	133.70	30.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 8:45 PM	82.00	2.70	45.40	60.50	15.10	45.40	56.80	60.50	30.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 9:00 PM	78.00	2.80	49.90	47.60	0.00	49.90	56.10	47.60	20.70	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 9:15 PM	81.00	4.40	43.70	51.80	8.10	43.70	59.90	51.80	20.70	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 9:30 PM	76.00	4.10	49.00	49.30	0.30	49.00	49.20	49.30	20.70	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 9:45 PM	67.00	3.10	41.50	52.00	10.50	41.50	47.80	52.00	25.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 10:00 PM	70.00	4.00	39.40	44.10	4.70	39.40	38.90	44.10	23.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 10:15 PM	109.00	3.30	31.80	26.50	0.00	81.10	31.80	51.40	26.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 10:30 PM	119.00	2.80	28.60	51.30	22.70	62.00	28.60	32.20	51.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 10:45 PM	116.00	3.30	30.00	38.20	8.20	37.50	30.00	30.80	38.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 11:00 PM	102.00	1.80	31.50	21.60	0.00	26.80	31.50	34.80	21.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 11:15 PM	110.00	2.00	38.40	19.40	0.00	12.40	38.40	36.80	19.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 11:30 PM	102.00	3.10	35.50	16.70	0.00	11.10	35.50	32.10	16.70	0.00	0.00	0.00	0.00	0.00	0.00	
6/2/15 11:45 PM	105.00	3.00	30.20	14.70	0.00	9.80	30.20	30.20	14.70	0.00	0.00	0.00	0.00	0.00	0.00	
6/3/15 12:00 AM	144.00	1.30	30.70	15.00	0.00	10.40	30.70	32.40	15.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/3/15 12:15 AM	174.00	1.20	37.90	14.60	0.00	9.40	37.90	35.00	14.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/3/15 12:30 AM	156.00	1.30	30.00	14.90	0.00	10.90	30.00	38.20	14.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/3/15 12:45 AM	137.00	1.60	32.40	14.50	0.00	11.80	32.40	40.60	14.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/3/15 1:00 AM	141.00	1.80	35.50	16.00	0.00	29.10	35.50	40.60	16.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/3/15 1:15 AM	129.00	1.80	36.70	15.00	0.00	26.70	36.70	41.80	15.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/3/15 1:30 AM	123.00	2.70	39.10	14.70	0.00	35.90	39.10	46.70	14.70	0.00	0.00	0.00	0.00	0.00	0.00	
6/3/15 1:45 AM	128.00	2.10	42.00	16.50	0.00	35.90	42.00	47.10	16.50	0.00	0.00	0.00	0.00			



**US Army Corps
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Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
June 2015

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
6/4/15 10:15 AM	227.00	5.30	19.30	23.40	4.10	23.40	39.90	19.30	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 10:30 AM	223.00	4.10	18.80	24.20	5.40	24.20	19.90	18.80	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 10:45 AM	224.00	5.10	18.80	25.60	6.80	25.60	21.80	18.80	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 11:00 AM	203.00	4.80	19.10	25.10	6.00	25.10	22.20	19.10	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 11:15 AM	224.00	4.90	19.00	24.50	5.50	24.50	21.60	19.00	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 11:30 AM	229.00	4.10	20.80	26.50	5.70	26.50	23.50	20.80	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 11:45 AM	212.00	4.50	19.30	28.00	8.70	28.00	24.50	19.30	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 12:00 PM	200.00	3.60	19.30	27.70	8.40	27.70	26.50	19.30	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 12:15 PM	221.00	3.30	19.60	30.50	10.90	30.50	25.50	19.60	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 12:30 PM	246.00	3.40	20.10	29.80	9.70	29.80	24.60	20.10	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 12:45 PM	259.00	3.40	19.60	31.40	11.80	31.40	25.80	19.60	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 1:00 PM	268.00	3.30	20.20	29.90	9.70	29.90	25.80	20.20	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 1:15 PM	265.00	3.10	21.40	32.10	10.70	32.10	30.40	21.40	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 1:30 PM	214.00	4.90	22.00	30.60	8.60	30.60	28.80	22.00	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 1:45 PM	244.00	4.80	22.20	32.70	10.50	32.70	29.80	22.20	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 2:00 PM	222.00	4.60	21.60	31.00	9.40	31.00	28.00	21.60	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 2:15 PM	208.00	3.80	21.20	29.30	8.10	29.30	27.90	21.20	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 2:30 PM	239.00	3.90	20.20	30.50	10.30	30.50	28.10	20.20	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 2:45 PM	238.00	3.90	19.80	29.60	9.80	29.60	27.00	19.80	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 3:00 PM	206.00	4.70	18.70	29.20	10.50	29.20	24.30	18.70	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 3:15 PM	226.00	5.00	18.40	25.90	7.50	25.90	23.10	18.40	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 3:30 PM	226.00	2.90	17.40	24.80	7.40	24.80	22.60	17.40	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 3:45 PM	196.00	3.90	17.60	22.20	4.60	22.20	22.20	17.60	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 4:00 PM	210.00	2.80	17.80	24.30	6.50	24.30	22.20	17.80	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 4:15 PM	201.00	3.80	17.70	21.30	3.60	21.30	21.40	17.70	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 4:30 PM	207.00	3.20	18.10	20.90	2.80	20.90	20.40	18.10	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 4:45 PM	228.00	3.30	17.60	21.30	3.70	21.30	19.50	17.60	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 5:00 PM	216.00	4.60	17.40	20.10	2.70	20.10	20.00	17.40	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 5:15 PM	186.00	5.00	17.00	20.70	3.70	20.70	20.10	17.00	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 5:30 PM	196.00	2.30	17.20	20.40	3.20	20.40	19.30	17.20	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 5:45 PM	203.00	2.30	15.70	17.30	1.60	17.30	19.00	15.70	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 6:00 PM	237.00	1.80	15.20	18.50	3.30	18.50	18.00	15.20	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 6:15 PM	229.00	2.20	14.30	18.70	4.40	18.70	17.30	14.30	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 6:30 PM	230.00	1.50	13.80	0.00	0.00	0.00	20.20	13.80	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 6:45 PM	202.00	1.90	13.30	18.10	4.80	18.10	16.70	13.30	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 7:00 PM	215.00	1.80	13.60	17.60	4.00	17.60	16.40	13.60	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 7:15 PM	219.00	2.10	13.70	17.60	3.90	17.60	17.30	13.70	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 7:30 PM	192.00	1.20	13.80	18.70	4.90	18.70	18.90	13.80	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 7:45 PM	199.00	1.60	13.50	15.60	2.10	15.60	18.30	13.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 8:00 PM	145.00	2.70	19.10	13.10	0.00	18.30	19.10	14.20	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 8:15 PM	156.00	1.80	19.10	13.40	0.00	17.70	19.10	14.10	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 8:30 PM	161.00	2.00	21.60	12.80	0.00	15.70	21.60	13.60	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 8:45 PM	170.00	2.10	21.60	12.90	0.00	16.40	21.60	14.40	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 9:00 PM	171.00	2.10	22.60	13.40	0.00	22.50	22.60	14.80	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 9:15 PM	162.00	2.00	40.60	17.50	0.00	26.40	40.60	21.30	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 9:30 PM	162.00	1.70	31.90	17.70	0.00	28.00	31.90	23.10	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 9:45 PM	176.00	2.20	32.50	17.20	0.00	25.10	32.50	23.60	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 10:00 PM	190.00	2.30	25.70	26.10	0.40	26.10	32.60	25.70	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 10:15 PM	215.00	1.00	26.00	26.60	0.60	26.60	33.10	26.00	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 10:30 PM	187.00	2.80	27.20	27.10	0.00	27.10	37.10	27.20	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 10:45 PM	202.00	2.30	28.00	28.40	0.40	28.40	36.40	28.00	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 11:00 PM	211.00	1.80	28.40	30.00	1.60	30.00	36.10	28.40	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 11:15 PM	205.00	2.40	30.20	30.50	0.30	30.50	35.60	30.20	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 11:30 PM	204.00	2.30	30.50	28.10	0.00	28.10	37.00	30.50	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/4/15 11:45 PM	206.00	2.80	30.60	30.40	0.00	30.40	36.00	30.60	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/5/15 12:00 AM	197.00	2.30	31.10	30.80	0.00	30.80	36.20	31.10	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/5/15 12:15 AM	178.00	1.90	36.50	18.00	0.00	31.10	36.50	30.80	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/5/15 12:30 AM	200.00	1.60	30.40	30.10	0.00	30.10	36.70	30.40	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/5/15 12:45 AM	193.00	1.70	29.90	29.50	0.00	29.50	36.20	29.90	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/5/15 1:00 AM	212.00	1.90	30.00	29.40	0.00	29.40	36.60	30.00	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/5/15 1:15 AM	203.00	2.80	30.60	28.10	0.00	28.10	36.30	30.60	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/5/15 1:30 AM	351.00	3.50	18.70	36.90	18.20	36.90	36.90	31.30	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/5/15 1:45 AM	337.00	2.50	19.00	38.00	19.00	38.00	38.00	32.60	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/5/15 2:00 AM	340.00	3.10	18.70	38.50	19.80	38.50	38.50	33.90	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/5/15 2:15 AM	336.00	2.80	18.70	39.50	20.80	39.50	39.50	34.60	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/5/15 2:30 AM	344.00	3.80	19.60	47.00	27.40	47.00	47.00	36.80	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/5/15 2:45 AM	341.00	3.30	17.10	33.90	16.80	33.90	33.90	25.80	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/5/15 3:00 AM	332.00	2.30	18.40	35.10	16.70	35.10	35.10	25.80	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/5/15 3:15 AM	348.00	3.00	18.30	37.50	19.20	37.50	37.50	26.80	18.30	0.00</						



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Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
June 2015

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
6/5/15 11:30 AM	3.00	9.40	11.00	6.70	0.00	11.00	11.20	6.70	9.10	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 11:45 AM	2.00	6.80	3.60	6.00	2.40	3.60	9.00	6.00	9.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 12:00 PM	6.00	9.90	3.50	5.50	2.00	3.50	10.00	5.50	9.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 12:15 PM	351.00	7.20	9.40	6.50	0.00	2.60	6.50	4.90	9.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 12:30 PM	358.00	7.90	9.00	8.30	0.00	5.30	8.30	5.10	9.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 12:45 PM	1.00	10.90	3.80	4.80	1.00	3.80	6.90	4.80	8.70	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 1:00 PM	3.00	9.40	7.30	5.00	0.00	7.30	8.20	5.00	8.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 1:15 PM	9.00	8.60	5.20	5.30	0.10	5.20	10.30	5.30	8.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 1:30 PM	8.00	10.80	4.60	5.40	0.80	4.60	8.40	5.40	8.70	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 1:45 PM	3.00	10.10	5.50	5.80	0.30	5.50	9.70	5.80	9.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 2:00 PM	7.00	9.90	10.40	6.20	0.00	10.40	14.20	6.20	9.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 2:15 PM	5.00	12.50	16.80	6.90	0.00	16.80	13.60	6.90	9.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 2:30 PM	11.00	11.40	12.80	7.50	0.00	12.80	20.60	7.50	9.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 2:45 PM	10.00	11.90	12.10	7.40	0.00	12.10	13.70	7.40	9.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 3:00 PM	1.00	9.50	11.90	8.10	0.00	11.90	15.00	8.10	9.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 3:15 PM	353.00	10.20	10.00	18.60	8.60	19.10	18.60	8.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 3:30 PM	355.00	9.60	10.30	18.20	7.90	15.70	18.20	7.50	10.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 3:45 PM	1.00	9.50	11.60	7.60	0.00	11.60	29.20	7.60	10.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 4:00 PM	359.00	10.20	10.90	16.80	5.90	11.40	16.80	8.40	10.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 4:15 PM	357.00	10.00	10.40	13.70	3.30	9.20	13.70	8.90	10.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 4:30 PM	353.00	10.10	10.00	12.70	2.70	7.90	12.70	8.40	10.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 4:45 PM	6.00	10.60	6.30	7.00	0.70	6.30	11.00	7.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 5:00 PM	357.00	10.60	8.50	12.50	4.00	7.00	12.50	7.00	8.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 5:15 PM	8.00	11.30	0.00	6.50	0.00	0.00	11.60	6.50	8.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 5:30 PM	2.00	9.90	5.00	5.20	0.20	5.00	9.70	5.20	8.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 5:45 PM	353.00	13.00	9.30	12.10	2.80	8.00	12.10	6.30	9.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 6:00 PM	358.00	9.80	9.50	13.50	4.00	5.90	13.50	6.00	9.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 6:15 PM	8.00	9.70	5.00	5.60	0.60	5.00	9.30	5.60	9.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 6:30 PM	356.00	10.60	9.90	12.30	2.40	5.50	12.30	5.50	9.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 6:45 PM	356.00	10.70	9.50	9.90	0.40	3.10	9.90	5.40	9.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 7:00 PM	359.00	10.30	9.00	39.60	30.60	3.10	39.60	5.30	9.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 7:15 PM	359.00	9.90	8.50	11.70	3.20	5.10	11.70	6.20	8.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 7:30 PM	354.00	9.60	8.40	9.50	1.10	3.80	9.50	6.90	8.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 7:45 PM	2.00	10.00	3.40	7.30	3.90	3.40	9.80	7.30	8.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 8:00 PM	357.00	10.50	8.40	9.80	1.40	4.40	9.80	8.70	8.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 8:15 PM	355.00	7.30	8.40	9.20	0.80	0.00	9.20	8.70	8.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 8:30 PM	10.00	7.30	3.60	8.60	5.00	3.60	9.50	8.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 8:45 PM	16.00	7.20	3.80	8.30	4.50	3.80	9.40	8.30	7.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 9:00 PM	14.00	9.20	3.20	8.10	4.90	3.20	8.60	8.10	7.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 9:15 PM	14.00	6.60	3.80	8.00	4.20	3.80	9.60	8.00	7.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 9:30 PM	11.00	8.20	4.30	8.20	3.90	4.30	13.30	8.20	7.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 9:45 PM	21.00	6.60	9.20	8.40	0.00	9.20	8.60	8.40	7.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 10:00 PM	8.00	8.70	4.10	9.00	4.90	4.10	7.70	9.00	6.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 10:15 PM	2.00	9.90	0.00	9.30	0.00	0.00	10.80	9.30	5.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 10:30 PM	5.00	7.90	4.90	8.00	3.10	4.90	8.60	8.00	5.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 10:45 PM	354.00	6.60	6.50	11.00	4.50	10.20	11.00	7.70	6.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 11:00 PM	354.00	7.70	7.10	8.50	1.40	9.50	8.50	8.40	7.10	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 11:15 PM	354.00	7.50	7.00	11.20	4.20	4.50	11.20	7.60	7.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 11:30 PM	10.00	7.70	3.90	6.90	3.00	3.90	14.40	6.90	6.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/15 11:45 PM	9.00	8.90	3.40	6.80	3.40	3.40	8.60	6.80	6.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/6/15 12:00 AM	6.00	7.40	0.00	6.90	0.00	0.00	8.30	6.90	6.70	0.00	0.00	0.00	0.00	0.00	0.00	
6/6/15 12:15 AM	9.00	5.70	3.10	7.00	3.90	3.10	8.60	7.00	6.10	0.00	0.00	0.00	0.00	0.00	0.00	
6/6/15 12:30 AM	21.00	4.90	10.20	6.50	0.00	10.20	13.70	6.50	6.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/6/15 12:45 AM	359.00	4.40	6.10	9.50	3.40	4.30	9.50	6.70	6.10	0.00	0.00	0.00	0.00	0.00	0.00	
6/6/15 1:00 AM	352.00	4.10	6.60	11.60	5.00	9.10	11.60	6.60	6.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/6/15 1:15 AM	359.00	2.20	6.80	8.70	1.90	4.90	8.70	6.50	6.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/6/15 1:30 AM	348.00	4.80	6.80	8.60	1.80	8.70	8.60	6.80	6.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/6/15 1:45 AM	346.00	3.20	6.30	10.10	3.80	11.20	10.10	7.20	6.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/6/15 2:00 AM	349.00	4.50	5.80	13.80	8.00	0.00	13.80	6.90	5.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/6/15 2:15 AM	352.00	3.20	5.40	11.20	5.80	5.60	11.20	7.00	5.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/6/15 2:30 AM	341.00	2.10	5.50	11.50	6.00	5.60	11.50	7.30	5.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/6/15 2:45 AM	334.00	3.30	5.30	9.20	3.90	4.80	9.20	7.80	5.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/6/15 3:00 AM	340.00	4.40	5.30	9.80	4.50	18.70	9.80	7.90	5.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/6/15 3:15 AM	349.00	4.00	4.90	12.70	7.80	10.30	12.70	8.50	4.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/6/15 3:30 AM	350.00	4.00	5.30	14.60	9.30	18.20	14.60	8.80	5.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/6/15 3:45 AM	351.00	5.50	6.00	12.90	6.90	7.00	12.90	9.70	6.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/6/15 4:00 AM	357.00	5.40	6.00	13.30	7.30	7.20	13.30	10.20	6.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/6/15 4:15 AM	1.00	4.10	8.50	11.20	2.70	8.50	14.40	11.20	5.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/6/15 4:30 AM	349.00	5.20	4.90	14.60	9.70	9.00	14.60	12.10	4.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/6/15 4:45 AM	24.00	4.00	8.80	11.70	2.90	8.80	14.10	11.70	4.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/6/15 5:00 AM	353.00	5.80	4.20	18.00	13.80	11.80	18.00	11.70	4.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/6/15 5:15 AM	349.00	4.30	3.90	16.90	13.00	12.00	16.90	11.60	3.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/6/15 5:30 AM	348.00	4.20	4.00	16.40	12.40	0.00	16.40	10.80	4.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/6/15 5:45 AM	346.00	4.70	5.50	16.80	11.30	16.40	16.80	11.00	5.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/6/15 6:00 AM	347.00	4.30	5.60	16.10	10.50	10.10	16.10	11.60	5.60	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
6/6/15 12:45 PM	9.00	5.90	14.40	22.20	7.80	14.40	15.70	22.20	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 1:00 PM	4.00	6.30	13.00	24.70	11.70	13.00	15.60	24.70	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 1:15 PM	10.00	6.50	20.80	21.90	1.10	20.80	13.90	21.90	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 1:30 PM	19.00	8.20	25.10	21.40	0.00	25.10	13.70	21.40	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 1:45 PM	8.00	6.30	20.90	29.80	8.90	20.90	13.80	29.80	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 2:00 PM	29.00	5.00	17.40	19.90	2.50	17.40	17.10	19.90	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 2:15 PM	18.00	6.20	19.80	22.40	2.60	19.80	12.40	22.40	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 2:30 PM	23.00	6.60	17.00	22.20	5.20	17.00	12.40	22.20	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 2:45 PM	23.00	5.70	20.80	20.70	0.00	20.80	14.40	20.70	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 3:00 PM	25.00	6.60	25.50	24.90	0.00	25.50	14.20	24.90	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 3:15 PM	9.00	6.10	24.40	70.70	46.30	24.40	11.40	70.70	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 3:30 PM	12.00	6.10	0.00	20.80	0.00	0.00	12.00	20.80	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 3:45 PM	31.00	5.10	0.00	17.80	0.00	0.00	11.70	17.80	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 4:00 PM	47.00	6.00	11.00	21.50	10.50	11.00	10.40	21.50	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 4:15 PM	37.00	5.40	17.30	24.40	7.10	17.30	9.40	24.40	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 4:30 PM	37.00	4.50	46.60	31.80	0.00	46.60	9.40	31.80	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 4:45 PM	29.00	4.60	18.10	32.80	14.70	18.10	9.60	32.80	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 5:00 PM	18.00	4.70	15.70	30.50	14.80	15.70	10.00	30.50	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 5:15 PM	15.00	4.20	9.10	16.80	7.70	9.10	9.90	16.80	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 5:30 PM	21.00	4.00	0.00	15.10	0.00	0.00	9.80	15.10	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 5:45 PM	42.00	4.20	0.00	16.20	0.00	0.00	11.00	16.20	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 6:00 PM	28.00	4.40	9.50	15.40	5.90	9.50	11.50	15.40	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 6:15 PM	47.00	3.80	8.80	15.80	7.00	8.80	13.10	15.80	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 6:30 PM	38.00	3.60	9.00	17.10	8.10	9.00	11.40	17.10	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 6:45 PM	32.00	2.70	9.80	16.80	7.00	9.80	12.40	16.80	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 7:00 PM	12.00	1.60	7.90	14.90	7.00	7.90	11.70	14.90	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 7:15 PM	21.00	2.20	9.00	16.60	7.60	9.00	11.70	16.60	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 7:30 PM	44.00	1.80	7.80	15.10	7.30	7.80	14.70	15.10	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 7:45 PM	50.00	2.40	9.70	16.30	6.60	9.70	14.90	16.30	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 8:00 PM	18.00	2.90	9.50	15.40	5.90	9.50	13.20	15.40	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 8:15 PM	23.00	3.60	18.80	24.70	5.90	18.80	31.60	24.70	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 8:30 PM	36.00	2.50	29.20	36.70	7.50	29.20	48.70	36.70	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 8:45 PM	45.00	2.70	32.30	38.30	6.00	32.30	46.90	38.30	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 9:00 PM	29.00	1.90	25.70	46.10	20.40	25.70	54.20	46.10	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 9:15 PM	38.00	1.60	29.80	37.40	7.60	29.80	29.60	37.40	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 9:30 PM	59.00	1.60	12.50	27.00	14.50	12.50	19.90	27.00	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 9:45 PM	11.00	1.00	10.10	19.40	9.30	10.10	16.90	19.40	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 10:00 PM	204.00	0.80	25.90	0.00	0.00	0.00	22.00	25.90	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 10:15 PM	191.00	0.80	31.90	24.00	0.00	24.00	24.60	31.90	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 10:30 PM	251.00	0.40	32.00	43.20	11.20	43.20	27.20	32.00	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 10:45 PM	148.00	1.40	37.10	11.40	0.00	42.00	37.10	39.40	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 11:00 PM	128.00	0.50	44.70	9.10	0.00	36.20	44.70	32.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 11:15 PM	60.00	1.30	47.60	30.70	0.00	47.60	45.40	30.70	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 11:30 PM	198.00	0.60	32.40	48.20	15.80	48.20	30.00	32.40	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/15 11:45 PM	194.00	0.20	36.20	26.30	0.00	26.30	25.50	36.20	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/15 12:00 AM	223.00	0.90	31.60	14.60	0.00	14.60	25.30	31.60	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/15 12:15 AM	182.00	1.00	33.00	26.50	0.00	26.50	34.20	33.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/15 12:30 AM	125.00	0.40	35.10	8.50	0.00	29.20	35.10	35.80	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/15 12:45 AM	162.00	1.60	31.00	9.10	0.00	27.00	31.00	37.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/15 1:00 AM	185.00	0.80	38.80	31.60	0.00	31.60	33.20	38.80	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/15 1:15 AM	141.00	1.80	29.70	9.50	0.00	24.10	29.70	38.40	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/15 1:30 AM	122.00	1.70	30.00	10.00	0.00	24.20	30.00	38.10	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/15 1:45 AM	126.00	2.10	31.10	10.10	0.00	23.60	31.10	38.30	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/15 2:00 AM	144.00	1.90	32.40	9.60	0.00	28.30	32.40	37.30	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/15 2:15 AM	145.00	1.50	32.00	9.40	0.00	27.20	32.00	36.80	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/15 2:30 AM	152.00	2.20	32.50	9.40	0.00	24.80	32.50	36.10	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/15 2:45 AM	152.00	2.70	34.90	9.20	0.00	35.00	34.90	34.40	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/15 3:00 AM	155.00	3.00	90.20	11.20	0.00	36.90	90.20	41.60	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/15 3:15 AM	171.00	3.40	45.90	9.20	0.00	0.00	45.90	47.90	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/15 3:30 AM	169.00	3.30	47.20	10.30	0.00	34.70	47.20	56.30	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/15 3:45 AM	165.00	4.20	48.30	11.10	0.00	36.20	48.30	51.40	11.10	0.00	0.00	0.00	0.00	0.00	2.90	2.90
6/7/15 4:00 AM	165.00	4.10	44.50	11.10	0.00	35.30	44.50	51.20	11.10	0.00	2.10	2.10	0.00	0.00	2.90	2.90
6/7/15 4:15 AM	169.00	3.60	52.30	11.90	0.00	35.10	52.30	45.00	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/15 4:30 AM	165.00	3.00	43.80	11.50	0.00	35.00	43.80	42.60	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/15 4:45 AM	166.00	3.10	42.60	11.70	0.00	31.00	42.60	41.40	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/15 5:00 AM	168.00	3.20	42.70	11.80	0.00	30.90	42.70	40.80	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/15 5:15 AM	177.00	3.40	42.50	12.50	0.00	30.70	42.50	40.20	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/15 5:30 AM	175.00	4.10	42.10	12.90	0.00	32.50	42.10	39.70	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/15 5:45 AM	181.00	4.40	38.80	33.70	0.00	33.70	41.60	38.80	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/15 6:00 AM	186.00	4.00	38.00	33.70	0.00	33.70</										



**US Army Corps
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Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
June 2015

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		
6/9/15 4:30 PM	187.00	5.20	35.50	59.00	23.50	59.00	44.70	35.50	31.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 4:45 PM	219.00	4.30	33.80	58.80	25.00	58.80	43.00	33.80	30.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 5:00 PM	216.00	3.70	31.40	47.60	16.20	47.60	40.80	31.40	28.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 5:15 PM	245.00	4.30	32.40	51.70	19.30	51.70	39.10	32.40	29.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 5:30 PM	221.00	4.90	30.90	49.40	18.50	49.40	38.20	30.90	28.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 5:45 PM	221.00	4.80	27.80	40.20	12.40	40.20	32.40	27.80	25.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 6:00 PM	207.00	3.10	24.20	35.50	11.30	35.50	30.70	24.20	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 6:15 PM	0.00	0.00	0.00	0.00	0.00	31.20	25.20	21.50	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 6:30 PM	194.00	4.30	20.80	26.50	5.70	26.50	22.00	20.80	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 6:45 PM	192.00	3.50	20.30	24.60	4.30	24.60	21.20	20.30	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 7:00 PM	191.00	4.30	20.20	22.70	2.50	22.70	19.10	20.20	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 7:15 PM	185.00	2.60	18.60	22.50	3.90	22.50	17.80	18.60	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 7:30 PM	184.00	3.20	19.30	24.20	4.90	24.20	17.70	19.30	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 7:45 PM	186.00	2.60	19.80	25.00	5.20	25.00	17.40	19.80	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 8:00 PM	188.00	3.30	20.60	23.90	3.30	23.90	17.90	20.60	26.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 8:15 PM	188.00	3.00	21.10	24.70	3.60	24.70	18.10	21.10	27.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 8:30 PM	183.00	3.30	21.10	24.90	3.80	24.90	18.40	21.10	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 8:45 PM	180.00	4.20	22.20	26.40	4.20	26.40	19.60	22.20	27.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 9:00 PM	187.00	3.60	23.00	26.30	3.30	26.30	20.30	23.00	27.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 9:15 PM	190.00	3.00	24.40	27.70	3.30	27.70	21.00	24.40	28.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 9:30 PM	191.00	3.60	24.60	28.80	4.20	28.80	22.00	24.60	27.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 9:45 PM	193.00	3.40	25.60	29.50	3.90	29.50	23.10	25.60	28.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 10:00 PM	194.00	3.80	26.20	30.10	3.90	30.10	24.50	26.20	28.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 10:15 PM	198.00	3.90	27.30	30.50	3.20	30.50	24.60	27.30	28.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 10:30 PM	200.00	3.70	27.10	29.90	2.80	29.90	24.80	27.10	28.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 10:45 PM	0.00	0.00	0.00	0.00	0.00	29.70	24.70	27.50	27.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 11:00 PM	205.00	4.30	27.40	29.00	1.60	29.00	25.30	27.40	27.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 11:15 PM	208.00	4.30	27.80	28.00	0.20	28.00	25.50	27.80	26.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 11:30 PM	206.00	3.60	27.80	26.50	0.00	26.50	23.90	27.80	26.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/9/15 11:45 PM	201.00	4.80	26.20	24.80	0.00	24.80	23.70	26.20	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 12:00 AM	207.00	5.00	25.00	24.90	0.00	24.90	23.90	25.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 12:15 AM	197.00	4.70	24.80	22.80	0.00	22.80	22.60	24.80	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 12:30 AM	200.00	4.10	24.30	22.30	0.00	22.30	21.70	24.30	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 12:45 AM	199.00	4.30	22.70	19.50	0.00	19.50	20.00	22.70	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 1:00 AM	205.00	5.00	21.80	17.80	0.00	17.80	19.10	21.80	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 1:15 AM	207.00	4.40	21.30	17.80	0.00	17.80	18.50	21.30	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 1:30 AM	207.00	4.60	21.30	17.40	0.00	17.40	18.50	21.30	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 1:45 AM	204.00	3.70	20.60	16.00	0.00	16.00	17.70	20.60	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 2:00 AM	220.00	4.40	20.20	15.40	0.00	15.40	17.40	20.20	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 2:15 AM	212.00	5.80	19.30	14.20	0.00	14.20	16.90	19.30	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 2:30 AM	207.00	4.20	17.20	12.60	0.00	12.60	15.10	17.20	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 2:45 AM	202.00	5.60	16.40	11.20	0.00	11.20	13.90	16.40	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 3:00 AM	204.00	5.20	15.80	10.30	0.00	10.30	12.30	15.80	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 3:15 AM	212.00	4.30	16.10	9.90	0.00	9.90	12.10	16.10	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 3:30 AM	203.00	4.80	17.50	11.00	0.00	11.00	12.60	17.50	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 3:45 AM	205.00	4.20	18.60	11.40	0.00	11.40	13.00	18.60	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 4:00 AM	209.00	6.30	19.20	10.80	0.00	10.80	13.10	19.20	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 4:15 AM	202.00	5.00	20.20	10.40	0.00	10.40	13.10	20.20	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 4:30 AM	199.00	4.70	21.00	10.80	0.00	10.80	13.20	21.00	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 4:45 AM	199.00	5.90	22.30	11.60	0.00	11.60	13.60	22.30	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 5:00 AM	200.00	6.40	22.90	11.20	0.00	11.20	13.70	22.90	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 5:15 AM	202.00	5.40	23.20	10.90	0.00	10.90	13.40	23.20	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 5:30 AM	211.00	5.30	23.20	11.00	0.00	11.00	13.50	23.20	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 5:45 AM	209.00	5.50	22.40	10.40	0.00	10.40	13.70	22.40	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 6:00 AM	211.00	5.80	22.00	10.80	0.00	10.80	13.30	22.00	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 6:15 AM	245.00	7.90	23.00	10.60	0.00	10.60	13.40	23.00	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 6:30 AM	204.00	3.90	23.50	10.80	0.00	10.80	13.70	23.50	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 6:45 AM	200.00	5.70	23.90	11.00	0.00	11.00	13.60	23.90	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 7:00 AM	202.00	4.80	23.80	11.00	0.00	11.00	13.60	23.80	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 7:15 AM	211.00	5.10	23.40	10.50	0.00	10.50	14.40	23.40	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 7:30 AM	208.00	4.60	27.60	14.90	0.00	14.90	18.50	27.60	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 7:45 AM	215.00	4.50	28.70	10.40	0.00	10.40	18.20	28.70	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 8:00 AM	220.00	6.00	31.60	13.30	0.00	13.30	21.60	31.60	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 8:15 AM	251.00	6.20	31.70	13.00	0.00	13.00	21.90	31.70	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 8:30 AM	237.00	5.10	30.60	13.00	0.00	13.00	22.40	30.60	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 8:45 AM	243.00	7.10	30.60	12.40	0.00	12.40	21.60	30.60	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 9:00 AM	247.00	6.60	27.20	12.30	0.00	12.30	19.90	27.20	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 9:15 AM	242.00	6.90	24.40	12.30	0.00	12.30	18.90	24.40	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/10/15 9:30 AM	245.00	8.60	20.90	12.50	0.00	12.50	17.30	20.90	14									



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Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
June 2015

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
6/10/15 5:45 PM	50.00	5.00	50.20	51.60	1.40	50.20	84.60	51.60	26.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/10/15 6:00 PM	65.00	7.50	74.20	51.60	0.00	74.20	50.50	51.60	27.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/10/15 6:15 PM	47.00	6.50	0.00	40.10	0.00	0.00	50.60	40.10	25.10	0.00	0.00	0.00	0.00	0.00	0.00	
6/10/15 6:30 PM	42.00	2.10	43.40	35.80	0.00	43.40	48.90	35.80	23.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/10/15 6:45 PM	14.00	3.10	46.70	44.40	0.00	46.70	74.70	44.40	25.10	0.00	0.00	0.00	0.00	0.00	0.00	
6/10/15 7:00 PM	281.00	1.00	28.60	99.30	70.70	81.30	99.30	70.50	28.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/10/15 7:15 PM	32.00	8.20	0.00	71.00	0.00	0.00	96.90	71.00	29.70	0.00	0.00	0.00	0.00	0.00	0.00	
6/10/15 7:30 PM	114.00	4.30	58.00	23.40	0.00	44.00	58.00	47.40	23.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/10/15 7:45 PM	102.00	3.00	61.50	20.80	0.00	43.10	61.50	51.40	20.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/10/15 8:00 PM	149.00	3.70	44.50	18.80	0.00	30.80	44.50	46.90	18.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/10/15 8:15 PM	231.00	2.50	46.90	32.10	0.00	32.10	53.10	46.90	17.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/10/15 8:30 PM	189.00	1.50	55.00	0.00	0.00	0.00	51.50	55.00	17.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/10/15 8:45 PM	345.00	2.20	21.00	79.70	58.70	60.80	79.70	68.50	21.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/10/15 9:00 PM	358.00	1.20	19.00	71.80	52.80	43.10	71.80	54.20	19.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/10/15 9:15 PM	346.00	0.40	19.50	61.30	41.80	47.10	61.30	45.20	19.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/10/15 9:30 PM	290.00	1.30	18.20	59.80	41.60	45.70	59.80	48.70	18.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/10/15 9:45 PM	140.00	2.40	61.30	17.90	0.00	44.40	61.30	52.90	17.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/10/15 10:00 PM	147.00	2.40	63.00	17.80	0.00	45.30	63.00	54.80	17.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/10/15 10:15 PM	130.00	1.20	66.40	18.20	0.00	44.00	66.40	56.00	18.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/10/15 10:30 PM	106.00	1.70	65.60	18.20	0.00	48.60	65.60	61.90	18.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/10/15 10:45 PM	11.00	2.10	49.00	66.70	17.70	49.00	68.70	66.70	18.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/10/15 11:00 PM	28.00	1.90	55.30	72.90	17.60	55.30	76.70	72.90	20.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/10/15 11:15 PM	41.00	1.60	54.10	56.80	2.70	54.10	61.40	56.80	19.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/10/15 11:30 PM	190.00	0.80	56.60	46.80	0.00	46.80	52.30	56.60	18.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/10/15 11:45 PM	195.00	1.70	53.50	46.10	0.00	46.10	44.20	53.50	18.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 12:00 AM	222.00	0.50	66.00	46.30	0.00	46.30	52.40	66.00	20.70	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 12:15 AM	18.00	1.50	39.50	62.80	23.30	39.50	64.70	62.80	19.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 12:30 AM	51.00	3.00	81.20	62.60	0.00	81.20	72.00	62.60	22.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 12:45 AM	76.00	2.20	71.70	74.00	2.30	71.70	67.70	74.00	22.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 1:00 AM	66.00	1.60	56.90	61.50	4.60	56.90	59.30	61.50	23.10	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 1:15 AM	73.00	2.70	65.80	68.10	2.30	65.80	65.30	68.10	23.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 1:30 AM	86.00	2.50	47.90	66.10	18.20	47.90	67.30	66.10	19.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 1:45 AM	88.00	2.30	55.20	80.00	24.80	55.20	94.20	80.00	23.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 2:00 AM	140.00	1.70	63.80	23.60	0.00	48.10	63.80	64.00	23.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 2:15 AM	53.00	1.60	70.80	41.10	0.00	70.80	55.40	41.10	35.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 2:30 AM	64.00	0.70	49.50	42.80	0.00	49.50	55.30	42.80	23.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 2:45 AM	275.00	4.00	24.40	66.30	41.90	50.60	66.30	44.10	24.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 3:00 AM	298.00	3.70	25.70	45.60	19.90	61.50	45.60	34.70	25.70	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 3:15 AM	315.00	0.40	26.50	45.90	19.40	61.50	45.90	28.50	26.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 3:30 AM	255.00	0.80	40.10	44.60	4.50	44.60	48.70	40.10	25.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 3:45 AM	165.00	0.30	54.40	24.80	0.00	45.70	54.40	45.80	24.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 4:00 AM	45.00	2.90	39.40	39.20	0.00	39.40	47.70	39.20	23.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 4:15 AM	40.00	5.00	44.50	44.00	0.00	44.50	53.10	44.00	24.70	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 4:30 AM	50.00	3.10	45.40	44.30	0.00	45.40	59.90	44.30	24.70	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 4:45 AM	57.00	5.00	46.60	47.70	1.10	46.60	57.50	47.70	24.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 5:00 AM	70.00	3.50	47.60	52.00	4.40	47.60	56.40	52.00	24.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 5:15 AM	65.00	4.40	37.50	42.20	4.70	37.50	49.20	42.20	22.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 5:30 AM	45.00	5.40	39.70	40.30	0.60	39.70	46.90	40.30	23.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 5:45 AM	23.00	2.20	40.20	46.40	6.20	40.20	56.40	46.40	23.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 6:00 AM	40.00	2.60	70.70	50.90	0.00	70.70	80.80	50.90	26.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 6:15 AM	30.00	2.40	52.00	44.60	0.00	52.00	49.40	44.60	29.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 6:30 AM	31.00	5.40	58.60	42.40	0.00	58.60	46.50	42.40	28.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 6:45 AM	43.00	2.20	95.40	73.00	0.00	95.40	59.30	73.00	26.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 7:00 AM	171.00	2.90	51.70	24.70	0.00	38.60	51.70	46.20	24.70	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 7:15 AM	102.00	2.90	54.10	24.50	0.00	48.00	54.10	54.70	24.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 7:30 AM	73.00	1.20	42.70	58.10	15.40	42.70	54.70	58.10	24.60	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 7:45 AM	15.00	2.00	44.60	48.10	3.50	44.60	49.00	48.10	24.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 8:00 AM	42.00	1.00	43.40	56.50	13.10	43.40	53.70	56.50	24.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 8:15 AM	32.00	0.80	53.20	65.30	12.10	53.20	65.40	65.30	28.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 8:30 AM	351.00	2.30	25.80	52.80	27.00	45.30	52.80	52.20	25.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 8:45 AM	5.00	1.00	44.40	55.30	10.90	44.40	49.40	55.30	25.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 9:00 AM	220.00	0.30	57.00	51.90	0.00	51.90	50.20	57.00	24.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 9:15 AM	338.00	1.90	24.50	58.20	33.70	53.70	58.20	59.40	24.50	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 9:30 AM	11.00	2.50	43.90	50.70	6.80	43.90	49.90	50.70	23.20	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 9:45 AM	355.00	2.30	23.10	47.90	24.80	45.50	47.90	45.60	23.10	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 10:00 AM	6.00	2.50	52.90	53.40	0.50	52.90	60.70	53.40	24.90	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 10:15 AM	344.00	3.80	23.00	59.00	36.00	53.30	59.00	55.20	23.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 10:30 AM	351.00	4.00	22.80	52.30	29.50	41.60	52.30	49.10	22.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 10:45 AM	344.00	4.30	22.30	50.10	27.80	41.40	50.10	46.10	22.30	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 11:00 AM	29.00	2.90	50.10	45.80	0.00	50.10	53.80	45.80	22.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 11:15 AM	37.00	2.80	44.10	41.10	0.00	44.10	49.90	41.10	21.80	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 11:30 AM	358.00	2.90	21.40	41.60	20.20	40.80	41.60	35.80	21.40	0.00	0.00	0.00	0.00	0.00	0.00	
6/11/15 11:45 AM	352.00															



US Army Corps
of Engineers®

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Confined Disposal Facility
Real-Time Air Monitoring Data
June 2015

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
6/11/15 7:00 PM	160.00	1.20	60.50	24.00	0.00	38.00	60.50	62.10	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/11/15 7:15 PM	321.00	0.60	22.60	57.70	35.10	37.30	57.70	57.90	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/11/15 7:30 PM	103.00	1.00	53.10	22.20	0.00	40.00	53.10	63.20	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/11/15 7:45 PM	307.00	1.30	23.40	61.60	38.20	48.60	61.60	68.20	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/11/15 8:00 PM	331.00	0.40	20.40	77.70	57.30	35.40	77.70	81.80	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/11/15 8:15 PM	258.00	0.70	65.60	37.50	0.00	37.50	70.80	65.60	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/11/15 8:30 PM	290.00	0.50	22.40	65.40	43.00	36.60	65.40	65.60	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/11/15 8:45 PM	198.00	0.80	65.00	48.00	0.00	48.00	68.80	65.00	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/11/15 9:00 PM	129.00	1.00	63.90	21.70	0.00	39.40	63.90	69.10	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/11/15 9:15 PM	115.00	1.90	67.10	21.10	0.00	40.80	67.10	68.20	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/11/15 9:30 PM	137.00	0.80	64.00	21.40	0.00	39.40	64.00	71.50	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/11/15 9:45 PM	88.00	0.40	40.50	68.20	27.70	40.50	69.40	68.20	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/11/15 10:00 PM	146.00	0.90	65.70	24.50	0.00	40.50	65.70	72.30	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/11/15 10:15 PM	43.00	0.80	47.50	78.70	31.20	47.50	66.60	78.70	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/11/15 10:30 PM	339.00	2.30	23.30	62.60	39.30	42.70	62.60	74.00	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/11/15 10:45 PM	7.00	2.60	42.10	70.70	28.60	42.10	61.60	70.70	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/11/15 11:00 PM	351.00	2.70	24.00	62.40	38.40	43.10	62.40	69.60	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/11/15 11:15 PM	295.00	3.90	24.00	56.90	32.90	46.10	56.90	70.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/11/15 11:30 PM	164.00	2.40	58.30	21.00	0.00	40.60	58.30	67.40	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/11/15 11:45 PM	193.00	5.90	54.10	34.40	0.00	34.40	52.90	54.10	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 12:00 AM	154.00	3.70	52.60	20.80	0.00	35.10	52.60	48.80	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 12:15 AM	145.00	1.10	51.20	20.80	0.00	30.40	51.20	43.80	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 12:30 AM	175.00	1.40	28.90	17.00	0.00	0.00	28.90	37.10	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 12:45 AM	244.00	1.30	36.70	16.60	0.00	16.60	24.60	36.70	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 1:00 AM	176.00	1.20	21.70	13.20	0.00	13.20	21.70	24.20	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 1:15 AM	207.00	2.00	16.00	13.70	0.00	13.70	21.90	16.00	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 1:30 AM	179.00	5.70	20.00	13.80	0.00	15.00	20.00	23.10	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 1:45 AM	174.00	3.20	22.60	13.70	0.00	16.50	22.60	19.70	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 2:00 AM	168.00	3.90	20.90	15.10	0.00	19.70	20.90	18.70	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 2:15 AM	168.00	3.50	23.90	18.00	0.00	23.20	23.90	20.30	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 2:30 AM	192.00	4.20	18.20	27.40	9.20	27.40	23.30	18.20	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 2:45 AM	179.00	4.70	18.80	13.90	0.00	15.20	18.80	10.00	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 3:00 AM	189.00	4.00	-6.70	17.40	24.10	17.40	18.80	-6.70	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 3:15 AM	197.00	4.20	-36.40	18.10	54.50	18.10	19.10	-36.40	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 3:30 AM	205.00	5.30	-31.00	18.50	49.50	18.50	19.30	-31.00	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 3:45 AM	203.00	5.30	-1.40	17.10	18.50	17.10	19.50	-1.40	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 4:00 AM	200.00	4.00	0.10	17.90	17.80	17.90	18.80	0.10	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 4:15 AM	194.00	2.90	-1.90	18.00	19.90	18.00	17.90	-1.90	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 4:30 AM	314.00	5.90	14.10	17.40	3.30	18.40	17.40	-3.00	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 4:45 AM	306.00	3.20	14.20	17.10	2.90	19.10	17.10	-3.10	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 5:00 AM	216.00	2.60	-2.40	19.50	21.90	19.50	17.00	-2.40	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 5:15 AM	205.00	4.80	-1.80	19.50	21.30	19.50	17.10	-1.80	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 5:30 AM	210.00	5.20	-0.30	20.00	20.30	20.00	17.50	-0.30	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 5:45 AM	224.00	5.10	66.50	30.60	0.00	30.60	35.60	66.50	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 6:00 AM	218.00	4.70	74.60	36.20	0.00	36.20	44.20	74.60	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 6:15 AM	223.00	4.30	30.00	19.50	0.00	19.50	25.30	30.00	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 6:30 AM	217.00	3.70	27.80	15.00	0.00	15.00	18.90	27.80	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 6:45 AM	228.00	4.80	26.10	12.80	0.00	12.80	16.30	26.10	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 7:00 AM	222.00	4.10	23.50	11.50	0.00	11.50	13.80	23.50	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 7:15 AM	247.00	5.60	24.90	9.90	0.00	9.90	11.90	24.90	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 7:30 AM	257.00	2.20	25.20	8.50	0.00	8.50	10.70	25.20	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 7:45 AM	280.00	1.80	11.10	9.90	0.00	8.70	9.90	23.60	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 8:00 AM	248.00	2.60	23.20	9.20	0.00	9.20	10.50	23.20	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 8:15 AM	217.00	2.50	21.80	9.00	0.00	9.00	11.60	21.80	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 8:30 AM	213.00	1.40	23.10	9.80	0.00	9.80	12.20	23.10	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 8:45 AM	212.00	3.10	18.80	10.20	0.00	10.20	13.20	18.80	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 9:00 AM	215.00	2.80	14.00	9.90	0.00	9.90	13.30	14.00	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 9:15 AM	209.00	3.40	19.40	8.80	0.00	8.80	13.70	19.40	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 9:30 AM	198.00	3.50	20.50	9.30	0.00	9.30	13.30	20.50	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 9:45 AM	234.00	4.70	16.50	10.00	0.00	10.00	13.30	16.50	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 10:00 AM	237.00	4.10	18.50	8.00	0.00	8.00	12.60	18.50	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 10:15 AM	205.00	2.50	21.40	7.00	0.00	7.00	10.80	21.40	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 10:30 AM	213.00	3.30	20.20	7.90	0.00	7.90	12.30	20.20	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 10:45 AM	210.00	4.40	17.70	7.10	0.00	7.10	10.00	17.70	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 11:00 AM	208.00	2.60	17.60	7.00	0.00	7.00	8.50	17.60	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 11:15 AM	210.00	2.00	17.80	6.40	0.00	6.40	7.60	17.80	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 11:30 AM	9.00	8.70	6.00	17.50	11.50	6.00	7.60	17.50	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 11:45 AM	38.00	5.90	5.30	17.30	12.00	5.30	5.50	17.30	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 12:00 PM	36.00	5.50	5.30	15.60	10.30	5.30	4.90	15.60	8.00	0.00	0					



**US Army Corps
of Engineers®**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
June 2015

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
6/12/15 8:15 PM	6.00	4.00	12.00	17.20	5.20	12.00	5.30	17.20	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 8:30 PM	344.00	5.00	6.00	5.80	0.00	14.50	5.80	18.50	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 8:45 PM	349.00	5.40	5.40	7.90	2.50	12.70	7.90	19.40	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 9:00 PM	2.00	4.80	19.90	20.20	0.30	19.90	9.90	20.20	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 9:15 PM	26.00	5.30	18.70	24.50	5.80	18.70	11.30	24.50	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 9:30 PM	352.00	4.70	4.90	14.50	9.60	17.10	14.50	22.50	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 9:45 PM	36.00	4.00	11.70	19.80	8.10	11.70	21.90	19.80	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 10:00 PM	28.00	2.40	21.60	20.40	0.00	21.60	14.70	20.40	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 10:15 PM	352.00	4.20	4.50	11.70	7.20	0.00	11.70	38.10	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 10:30 PM	347.00	3.00	4.50	13.10	8.60	17.40	13.10	22.80	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 10:45 PM	346.00	2.30	5.00	13.70	8.70	7.30	13.70	20.70	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 11:00 PM	0.00	2.40	10.70	54.80	44.10	10.70	12.50	54.80	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 11:15 PM	24.00	3.30	14.80	19.30	4.50	14.80	17.80	19.30	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 11:30 PM	43.00	3.30	18.80	19.80	1.00	18.80	13.90	19.80	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/15 11:45 PM	7.00	1.50	15.00	17.30	2.30	15.00	12.10	17.30	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 12:00 AM	259.00	0.80	17.10	12.60	0.00	12.60	12.60	17.10	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 12:15 AM	302.00	2.10	5.40	8.10	2.70	7.10	8.10	14.90	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 12:30 AM	278.00	1.40	5.20	8.00	2.80	5.80	8.00	14.80	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 12:45 AM	326.00	1.80	4.90	8.60	3.70	7.60	8.60	11.60	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 1:00 AM	1.00	3.10	7.70	12.00	4.30	7.70	9.60	12.00	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 1:15 AM	332.00	1.70	4.20	7.80	3.60	6.70	7.80	12.10	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 1:30 AM	351.00	3.50	4.00	7.50	3.50	5.80	7.50	11.20	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 1:45 AM	352.00	3.30	4.30	6.90	2.60	6.10	6.90	10.30	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 2:00 AM	329.00	2.70	4.10	7.20	3.10	5.90	7.20	10.70	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 2:15 AM	355.00	3.20	4.00	7.10	3.10	5.50	7.10	10.10	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 2:30 AM	359.00	3.20	4.30	8.10	3.80	6.80	8.10	10.20	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 2:45 AM	16.00	2.50	9.20	11.40	2.20	9.20	9.10	11.40	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 3:00 AM	33.00	2.90	8.90	11.70	2.80	8.90	9.40	11.70	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 3:15 AM	45.00	2.90	11.50	12.70	1.20	11.50	11.00	12.70	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 3:30 AM	73.00	2.60	11.90	13.70	1.80	11.90	11.30	13.70	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 3:45 AM	115.00	2.00	12.90	5.60	0.00	13.20	12.90	13.40	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 4:00 AM	123.00	1.40	11.70	5.40	0.00	11.40	11.70	15.50	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 4:15 AM	168.00	1.50	14.20	5.50	0.00	15.00	14.20	15.70	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 4:30 AM	127.00	1.50	16.50	6.10	0.00	16.50	16.50	18.40	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 4:45 AM	202.00	1.60	24.80	26.30	1.50	26.30	17.50	24.80	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 5:00 AM	198.00	0.60	36.50	42.70	6.20	42.70	34.90	36.50	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 5:15 AM	200.00	1.00	34.20	30.90	0.00	30.90	35.50	34.20	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 5:30 AM	244.00	0.50	40.20	33.70	0.00	33.70	40.30	40.20	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 5:45 AM	230.00	1.10	43.60	36.50	0.00	36.50	45.90	43.60	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 6:00 AM	182.00	0.30	55.30	0.00	0.00	0.00	54.00	55.30	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 6:15 AM	294.00	1.40	12.40	62.40	50.00	55.30	62.40	62.70	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 6:30 AM	103.00	0.50	62.80	12.40	0.00	64.60	62.80	57.80	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 6:45 AM	63.00	1.60	50.90	65.40	14.50	50.90	74.90	65.40	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 7:00 AM	47.00	1.30	58.40	87.20	28.80	58.40	66.70	87.20	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 7:15 AM	145.00	1.50	62.30	14.70	0.00	49.80	62.30	68.40	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 7:30 AM	153.00	1.60	73.60	15.70	0.00	49.70	73.60	71.80	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 7:45 AM	181.00	0.90	71.30	44.60	0.00	44.60	77.40	71.30	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 8:00 AM	154.00	1.80	61.10	15.60	0.00	39.80	61.10	66.80	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 8:15 AM	153.00	0.70	47.00	14.00	0.00	27.20	47.00	51.90	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 8:30 AM	156.00	1.40	33.30	14.50	0.00	23.10	33.30	43.20	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 8:45 AM	122.00	1.00	30.80	14.10	0.00	22.60	30.80	31.50	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 9:00 AM	161.00	2.00	28.20	13.70	0.00	24.00	28.20	29.00	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 9:15 AM	160.00	3.00	26.00	13.50	0.00	22.30	26.00	27.40	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 9:30 AM	161.00	3.00	23.00	13.00	0.00	21.70	23.00	26.20	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 9:45 AM	172.00	2.50	21.50	12.90	0.00	20.30	21.50	22.80	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 10:00 AM	187.00	3.20	21.80	18.30	0.00	18.30	17.90	21.80	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 10:15 AM	205.00	3.50	19.50	16.70	0.00	16.70	17.20	19.50	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 10:30 AM	196.00	2.40	16.30	15.80	0.00	15.80	15.90	16.30	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 10:45 AM	206.00	2.60	13.50	14.80	1.30	14.80	13.90	13.50	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 11:00 AM	207.00	3.10	12.00	12.70	0.70	12.70	11.10	12.00	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 11:15 AM	210.00	4.30	11.70	0.00	0.00	0.00	10.10	11.70	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 11:30 AM	216.00	4.80	7.90	10.70	2.80	10.70	8.80	7.90	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 11:45 AM	181.00	4.40	8.60	9.70	1.10	9.70	8.80	8.60	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 12:00 PM	0.00	0.00	0.00	0.00	0.00	10.30	9.30	7.80	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 12:15 PM	189.00	6.40	8.90	10.50	1.60	10.50	9.60	8.90	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 12:30 PM	212.00	3.70	8.10	10.00	1.90	10.00	8.90	8.10	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 12:45 PM	201.00	4.90	9.20	9.80	0.60	9.80	8.50	9.20	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 1:00 PM	209.00	4.70	9.20	9.60	0.40	9.60	8.20	9.20	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 1:15 PM	219.00	4.20	7.90	9.30	1.40	9.30	7.90	7.90	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 1:30 PM	186.00	5.90	7.80													



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June 2015

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
6/13/15 9:30 PM	189.00	3.90	8.90	8.20	0.00	8.20	12.40	8.90	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 9:45 PM	170.00	4.20	13.40	7.20	0.00	8.70	13.40	9.90	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 10:00 PM	179.00	3.40	11.40	7.10	0.00	6.80	11.40	19.00	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 10:15 PM	174.00	3.30	9.80	7.10	0.00	0.00	9.80	12.90	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 10:30 PM	193.00	4.20	8.90	5.90	0.00	5.90	9.50	8.90	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 10:45 PM	179.00	3.10	8.40	6.90	0.00	5.90	8.40	7.60	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 11:00 PM	192.00	3.50	7.70	6.20	0.00	6.20	8.80	7.70	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 11:15 PM	197.00	3.10	8.20	6.70	0.00	6.70	10.40	8.20	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 11:30 PM	0.00	0.00	0.00	0.00	0.00	7.80	11.50	9.60	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/15 11:45 PM	214.00	1.10	11.10	8.50	0.00	8.50	12.40	11.10	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 12:00 AM	184.00	2.50	11.10	8.80	0.00	8.80	12.90	11.10	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 12:15 AM	179.00	1.90	12.80	7.10	0.00	8.20	12.80	11.80	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 12:30 AM	228.00	0.90	11.80	8.30	0.00	8.30	12.80	11.80	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 12:45 AM	212.00	1.60	11.70	9.40	0.00	9.40	13.60	11.70	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 1:00 AM	217.00	4.10	10.70	8.70	0.00	8.70	12.90	10.70	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 1:15 AM	215.00	4.30	10.50	8.70	0.00	8.70	13.30	10.50	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 1:30 AM	237.00	1.80	11.00	9.40	0.00	9.40	14.30	11.00	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 1:45 AM	318.00	0.80	6.80	13.90	7.10	9.70	13.90	10.50	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 2:00 AM	276.00	1.00	6.80	14.10	7.30	10.50	14.10	9.40	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 2:15 AM	149.00	0.60	14.70	6.70	0.00	10.20	14.70	1.20	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 2:30 AM	280.00	1.00	6.40	12.30	5.90	8.80	12.30	15.40	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 2:45 AM	166.00	1.60	11.20	6.40	0.00	6.30	11.20	13.00	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 3:00 AM	215.00	2.20	11.80	7.20	0.00	7.20	11.50	11.80	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 3:15 AM	138.00	1.00	12.00	6.00	0.00	6.80	12.00	10.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 3:30 AM	199.00	0.70	10.20	6.80	0.00	6.80	13.10	10.20	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 3:45 AM	169.00	1.40	17.90	6.80	0.00	12.80	17.90	10.00	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 4:00 AM	164.00	1.20	11.80	5.90	0.00	7.40	11.80	7.80	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 4:15 AM	170.00	1.80	12.20	5.60	0.00	5.80	12.20	5.90	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 4:30 AM	174.00	2.10	12.40	5.70	0.00	6.30	12.40	4.10	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 4:45 AM	177.00	1.90	11.80	5.70	0.00	6.40	11.80	3.60	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 5:00 AM	178.00	1.50	11.80	5.40	0.00	6.30	11.80	3.40	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 5:15 AM	175.00	2.00	12.30	5.10	0.00	6.70	12.30	0.50	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 5:30 AM	189.00	2.50	-1.60	7.30	8.90	7.30	13.20	-1.60	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 5:45 AM	184.00	2.70	-6.10	7.90	14.00	7.90	13.60	-6.10	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 6:00 AM	202.00	2.00	-15.60	8.30	23.90	8.30	14.10	-15.60	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 6:15 AM	213.00	3.90	-26.20	9.20	35.40	9.20	15.20	-26.20	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 6:30 AM	234.00	3.70	-63.70	17.60	81.30	17.60	30.70	-63.70	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 6:45 AM	241.00	2.10	-59.00	16.70	75.70	16.70	28.50	-59.00	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 7:00 AM	230.00	2.50	-31.30	13.40	44.70	13.40	17.50	-31.30	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 7:15 AM	204.00	3.00	-24.20	9.20	33.40	9.20	15.20	-24.20	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 7:30 AM	209.00	2.60	-15.30	9.70	25.00	9.70	13.80	-15.30	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 7:45 AM	189.00	2.00	-14.80	8.20	23.00	8.20	13.40	-14.80	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 8:00 AM	198.00	2.30	-15.90	7.80	23.70	7.80	11.70	-15.90	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 8:15 AM	200.00	2.50	-15.70	5.70	21.40	5.70	9.70	-15.70	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 8:30 AM	188.00	3.30	-22.80	5.00	27.80	5.00	9.50	-22.80	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 8:45 AM	191.00	3.50	-45.00	5.60	50.60	5.60	9.30	-45.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 9:00 AM	191.00	3.80	-45.40	6.50	51.90	6.50	10.30	-45.40	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 9:15 AM	203.00	4.70	-79.90	8.20	88.10	8.20	10.10	-79.90	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 9:30 AM	210.00	4.30	-121.70	11.30	134.00	11.30	13.50	-121.70	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 9:45 AM	229.00	4.10	-117.80	11.90	129.70	11.90	15.60	-117.80	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 10:00 AM	235.00	4.10	-116.50	13.20	129.70	13.20	15.40	-116.50	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 10:15 AM	221.00	4.50	-123.70	14.40	138.10	14.40	15.10	-123.70	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 10:30 AM	230.00	4.30	-138.90	13.60	152.50	13.60	14.30	-138.90	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 10:45 AM	227.00	5.00	-133.90	13.90	147.80	13.90	15.10	-133.90	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 11:00 AM	231.00	4.80	-125.20	12.80	138.00	12.80	13.70	-125.20	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 11:15 AM	234.00	6.60	-113.80	11.60	125.40	11.60	12.50	-113.80	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 11:30 AM	235.00	6.00	-11.40	12.00	23.40	12.00	12.00	-11.40	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 11:45 AM	237.00	6.20	-1.80	11.00	12.80	11.00	11.40	-1.80	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 12:00 PM	240.00	5.60	1.30	10.90	9.60	10.90	9.60	1.30	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 12:15 PM	236.00	4.90	-7.80	9.70	17.50	9.70	9.70	-7.80	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 12:30 PM	256.00	6.10	-21.60	9.00	30.60	9.00	8.60	-21.60	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 12:45 PM	241.00	7.70	-24.10	8.90	33.00	8.90	7.00	-24.10	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 1:00 PM	249.00	5.60	-15.70	8.70	24.40	8.70	6.40	-15.70	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 1:15 PM	260.00	7.20	-21.20	8.50	29.70	8.50	5.40	-21.20	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 1:30 PM	241.00	5.30	-28.80	8.00	36.80	8.00	4.60	-28.80	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 1:45 PM	240.00	7.10	-28.30	7.80	36.10	7.80	4.40	-28.30	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 2:00 PM	231.00	5.40	-27.80	8.50	36.30	8.50	4.30	-27.80	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 2:15 PM	246.00	4.90	-27.90	8.70	36.60	8.70	4.40	-27.90	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 2:30 PM	244.00	5.00	-26.70	9.10	35.80	9.10	3.70	-26.70	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/15 2:45 PM	249.00	5.60	-19.80	8.20												



**US Army Corps
of Engineers®**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
June 2015

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		
6/17/15 1:15 AM	23.00	2.60	1.40	15.00	13.60	1.40	3.00	15.00	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 1:30 AM	32.00	2.80	1.50	15.20	13.70	1.50	3.10	15.20	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 1:45 AM	37.00	1.30	1.50	14.70	13.20	1.50	2.80	14.70	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 2:00 AM	36.00	2.80	2.50	14.10	11.60	2.50	2.50	14.10	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 2:15 AM	37.00	3.00	2.50	11.50	9.00	2.50	6.00	11.50	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 2:30 AM	16.00	2.70	2.40	12.20	9.80	2.40	5.10	12.20	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 2:45 AM	40.00	3.10	2.30	12.00	9.70	2.30	10.70	12.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 3:00 AM	31.00	3.70	2.20	12.20	10.00	2.20	4.10	12.20	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 3:15 AM	35.00	3.60	0.00	12.10	0.00	0.00	9.60	12.10	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 3:30 AM	34.00	2.80	2.00	14.60	12.60	2.00	8.50	14.60	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 3:45 AM	25.00	2.30	1.70	12.20	10.50	1.70	3.30	12.20	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 4:00 AM	28.00	2.80	2.10	11.70	9.60	2.10	3.30	11.70	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 4:15 AM	34.00	2.80	2.70	11.70	9.00	2.70	4.10	11.70	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 4:30 AM	49.00	2.90	3.00	18.90	15.90	3.00	3.50	18.90	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 4:45 AM	41.00	3.20	6.70	31.10	24.40	6.70	12.50	31.10	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 5:00 AM	40.00	3.80	4.20	18.60	14.40	4.20	5.90	18.60	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 5:15 AM	31.00	4.20	8.60	26.60	18.00	8.60	17.10	26.60	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 5:30 AM	34.00	4.30	11.10	26.60	15.50	11.10	26.60	26.60	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 5:45 AM	47.00	3.40	5.90	26.00	20.10	5.90	13.50	26.00	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 6:00 AM	57.00	2.00	4.00	21.30	17.30	4.00	9.50	21.30	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 6:15 AM	51.00	3.00	3.30	17.90	14.60	3.30	6.00	17.90	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 6:30 AM	187.00	0.60	18.10	3.50	0.00	3.50	13.90	18.10	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 6:45 AM	87.00	1.50	4.40	20.60	16.20	4.40	13.50	20.60	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 7:00 AM	64.00	1.30	6.60	31.70	25.10	6.60	17.10	31.70	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 7:15 AM	301.00	2.40	2.50	28.10	25.60	6.60	28.10	31.70	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 7:30 AM	301.00	1.10	14.90	98.60	83.70	32.40	98.60	75.60	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 7:45 AM	294.00	0.50	14.40	27.80	13.40	28.10	27.80	25.00	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 8:00 AM	328.00	2.50	10.60	34.70	24.10	14.00	34.70	28.90	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 8:15 AM	344.00	3.60	2.20	34.50	32.30	11.20	34.50	25.80	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 8:30 AM	356.00	4.90	3.00	10.10	7.10	8.40	10.10	18.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 8:45 AM	343.00	4.80	2.90	16.20	13.30	10.90	16.20	18.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 9:00 AM	345.00	4.10	3.80	20.30	16.50	10.90	20.30	22.50	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 9:15 AM	341.00	4.00	2.20	15.20	13.00	8.20	15.20	19.60	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 9:30 AM	330.00	3.10	1.70	10.60	8.90	8.00	10.60	8.50	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 9:45 AM	352.00	2.90	1.80	11.50	9.70	9.10	11.50	11.60	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 10:00 AM	0.00	0.00	0.00	0.00	0.00	7.00	9.80	10.00	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 10:15 AM	357.00	1.60	1.20	11.30	10.10	6.70	11.30	12.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 10:30 AM	352.00	3.00	1.40	11.00	9.60	4.70	11.00	15.10	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 10:45 AM	344.00	1.50	1.50	10.60	9.10	4.90	10.60	17.20	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 11:00 AM	355.00	1.90	1.80	13.00	11.20	5.80	13.00	19.60	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 11:15 AM	355.00	1.50	3.10	21.90	18.80	9.00	21.90	29.80	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 11:30 AM	28.00	1.80	11.70	34.70	23.00	11.70	31.90	34.70	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 11:45 AM	20.00	1.20	7.10	29.80	22.70	7.10	21.10	29.80	2.50	11.30	0.00	0.00	11.30	0.00	0.00	0.00		
6/17/15 12:00 PM	319.00	1.40	2.30	20.90	18.60	6.00	20.90	28.90	2.30	26.60	0.00	0.00	26.60	0.00	0.00	4.50		
6/17/15 12:15 PM	353.00	1.70	2.90	20.10	17.20	7.20	20.10	26.40	2.90	24.10	0.00	0.00	24.10	16.80	0.00	3.30		
6/17/15 12:30 PM	351.00	0.90	2.50	22.80	20.30	6.70	22.80	23.60	2.50	0.00	0.00	0.00	0.00	30.80	0.00	13.60		
6/17/15 12:45 PM	262.00	1.10	22.40	6.40	0.00	6.40	23.00	22.40	2.30	22.40	27.90	5.50	6.80	27.90	0.00	22.40		
6/17/15 1:00 PM	227.00	0.40	25.60	6.60	0.00	6.60	27.00	25.60	2.10	26.30	29.60	3.30	37.90	29.60	0.00	26.30		
6/17/15 1:15 PM	351.00	0.70	2.80	21.90	19.10	7.30	21.90	27.50	2.80	30.80	0.00	0.00	30.80	39.00	0.00	6.80		
6/17/15 1:30 PM	346.00	1.90	2.70	30.80	28.10	13.40	30.80	32.30	2.70	38.70	0.00	0.00	38.70	21.70	0.00	14.50		
6/17/15 1:45 PM	352.00	2.30	3.90	50.00	46.10	9.10	50.00	53.50	3.90	36.60	0.00	0.00	36.60	0.00	0.00	17.50		
6/17/15 2:00 PM	341.00	1.30	4.40	66.50	62.10	18.10	66.50	42.60	4.40	51.50	0.00	0.00	51.50	15.30	0.00	27.80		
6/17/15 2:15 PM	6.00	1.20	20.40	49.10	28.70	20.40	69.10	49.10	9.00	39.10	0.00	0.00	39.10	27.20	0.00	15.40		
6/17/15 2:30 PM	335.00	0.90	6.10	70.90	64.80	41.60	70.90	61.80	6.10	25.30	0.00	0.00	25.30	31.20	0.00	10.00		
6/17/15 2:45 PM	348.00	1.50	3.60	29.70	26.10	15.20	29.70	29.50	3.60	40.30	0.00	0.00	40.30	38.20	0.00	8.50		
6/17/15 3:00 PM	39.00	1.30	13.90	25.80	11.90	13.90	25.70	25.80	3.00	25.10	0.00	0.00	25.10	24.00	0.00	23.30		
6/17/15 3:15 PM	7.00	1.70	12.20	25.90	13.70	12.20	32.00	25.90	3.70	34.10	0.00	0.00	34.10	0.00	0.00	15.60		
6/17/15 3:30 PM	355.00	1.90	6.80	42.60	35.80	32.80	42.60	44.40	6.80	37.90	0.00	0.00	37.90	25.70	0.00	0.00		
6/17/15 3:45 PM	2.00	2.70	0.00	47.30	0.00	0.00	55.30	47.30	6.60	0.00	0.00	0.00	0.00	31.60	0.00	3.90		
6/17/15 4:00 PM	346.00	3.10	6.00	38.60	32.60	16.40	38.60	30.90	6.00	0.00	0.00	0.00	0.00	23.10	0.00	0.00		
6/17/15 4:15 PM	351.00	2.30	13.60	60.50	46.90	35.90	60.50	45.60	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/17/15 4:30 PM	22.00	2.00	23.60	56.30	32.70	23.60	62.10	56.30	8.70	18.40	0.00	0.00	18.40	15.40	0.00	0.00		
6/17/15 4:45 PM	17.00	1.90	19.60	34.70	15.10	19.60	29.60	34.70	8.30	13.50	0.00	0.00	13.50	25.60	0.00	0.00		
6/17/15 5:00 PM	355.00	2.20	9.30	29.30	20.00	15.10	29.30	28.30	9.30	4.90	0.00	0.00	4.90	37.40	0.00	0.00		
6/17/15 5:15 PM	4.00	2.00	23.10	29.10	6.00	23.10	24.70	29.10	11.10	44.40	0.00	0.00	44.40	32.60	0.00	0.00		
6/17/15 5:30 PM	354.00	1.40	18.30	39.60	21.30	47.70	39.60	44.40	18.30	6.10	0.00	0.00	6.10	39.00	0.00	0.00		
6/17/15 5:45 PM	52.00	0.70	47.70	52.60	4.90	47.70	46.60	52.60	18.30	34.30	0.00	0.00	6.10	34.30	0.00	0.00		
6/17/15 6:00 PM	124.00	0.80	55.10	8.20	0.00	51.70	55.10	41.70	8.20	54.80	6.00	0.00	13.10	54.80	0.00	6.00		
6/17/15 6:15 PM	114.00	0.70	58.00	6.70	0.00	39.90	58.00	24.40	6.70	49.30	0.00	0.00	0.00	49.30	0.00	0		



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Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
June 2015

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
6/18/15 2:30 AM	194.00	1.00	122.00	46.50	0.00	46.50	71.20	122.00	24.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/18/15 2:45 AM	227.00	0.70	124.80	46.20	0.00	46.20	79.30	124.80	24.30	0.00	3.90	3.90	31.50	3.90	0.00	0.00
6/18/15 3:00 AM	203.00	1.50	129.60	45.10	0.00	45.10	82.00	129.60	23.80	0.00	27.70	27.70	1.80	0.00	0.00	3.90
6/18/15 3:15 AM	205.00	1.60	153.40	43.20	0.00	43.20	81.60	153.40	22.90	0.00	21.40	21.40	1.20	0.00	0.00	0.00
6/18/15 3:30 AM	199.00	1.40	160.40	43.30	0.00	43.30	82.80	160.40	22.30	0.00	20.40	20.40	1.90	0.00	0.00	0.00
6/18/15 3:45 AM	187.00	1.80	154.50	41.90	0.00	41.90	83.50	154.50	21.00	0.00	22.20	22.20	2.00	0.00	0.00	0.00
6/18/15 4:00 AM	192.00	1.50	154.60	40.80	0.00	40.80	83.30	154.60	20.90	0.00	21.90	21.90	0.00	0.00	0.00	0.00
6/18/15 4:15 AM	196.00	2.00	170.20	39.30	0.00	39.30	81.30	170.20	20.00	0.00	23.90	23.90	2.80	0.00	0.00	0.00
6/18/15 4:30 AM	195.00	1.60	186.50	34.80	0.00	34.80	84.00	186.50	17.90	0.00	24.10	24.10	2.00	0.00	0.00	0.00
6/18/15 4:45 AM	191.00	1.50	199.20	34.50	0.00	34.50	84.00	199.20	17.60	0.00	14.00	14.00	1.40	2.10	0.00	0.00
6/18/15 5:00 AM	180.00	1.80	213.40	35.40	0.00	35.40	85.70	213.40	17.50	0.00	18.50	18.50	1.40	0.00	0.00	0.00
6/18/15 5:15 AM	200.00	2.30	194.20	32.10	0.00	32.10	80.80	194.20	17.60	0.00	23.10	23.10	2.00	0.00	0.00	0.00
6/18/15 5:30 AM	202.00	1.80	208.00	31.10	0.00	31.10	78.80	208.00	17.10	0.00	18.50	18.50	1.40	0.00	0.00	0.00
6/18/15 5:45 AM	212.00	1.50	238.90	29.30	0.00	29.30	81.60	238.90	16.60	0.00	14.70	14.70	1.10	0.00	0.00	0.00
6/18/15 6:00 AM	215.00	2.30	286.50	30.40	0.00	30.40	88.50	286.50	15.80	0.00	15.70	15.70	0.00	0.00	0.00	0.00
6/18/15 6:15 AM	212.00	1.90	300.10	32.30	0.00	32.30	89.50	300.10	16.60	0.00	11.10	11.10	0.00	0.00	0.00	0.00
6/18/15 6:30 AM	219.00	2.50	322.70	32.30	0.00	32.30	93.20	322.70	16.70	0.00	11.10	11.10	0.00	0.00	0.00	0.00
6/18/15 6:45 AM	228.00	2.80	353.60	31.20	0.00	31.20	93.00	353.60	14.80	0.00	0.00	0.00	20.50	0.00	0.00	0.00
6/18/15 7:00 AM	236.00	3.60	393.90	32.00	0.00	25.70	90.10	393.90	13.70	0.00	0.00	0.00	21.60	0.00	0.00	0.00
6/18/15 7:15 AM	231.00	3.70	419.80	22.30	0.00	22.30	83.80	419.80	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/18/15 7:30 AM	204.00	3.20	394.90	21.00	0.00	21.00	77.60	394.90	10.60	0.00	22.60	22.60	0.00	0.00	0.00	0.00
6/18/15 7:45 AM	217.00	4.50	414.40	19.20	0.00	19.20	73.00	414.40	9.90	0.00	26.80	26.80	0.00	0.00	0.00	0.00
6/18/15 8:00 AM	229.00	4.40	378.90	16.40	0.00	16.40	58.60	378.90	8.40	0.00	0.00	0.00	25.70	0.00	0.00	0.00
6/18/15 8:15 AM	232.00	3.00	340.90	14.20	0.00	14.20	55.00	340.90	8.10	0.00	0.00	0.00	25.80	0.00	0.00	0.00
6/18/15 8:30 AM	252.00	2.90	308.00	14.30	0.00	14.30	51.80	308.00	7.80	0.00	0.00	0.00	31.10	0.00	0.00	0.00
6/18/15 8:45 AM	227.00	3.50	338.50	15.10	0.00	15.10	50.90	338.50	8.50	0.00	0.00	0.00	27.90	0.00	0.00	0.00
6/18/15 9:00 AM	264.00	4.40	335.50	15.80	0.00	15.80	48.20	335.50	8.50	0.00	0.00	0.00	30.50	0.00	0.00	0.00
6/18/15 9:15 AM	261.00	3.80	303.80	16.50	0.00	16.50	48.50	303.80	9.00	0.00	0.00	0.00	34.30	0.00	0.00	0.00
6/18/15 9:30 AM	250.00	3.40	270.30	17.10	0.00	17.10	44.00	270.30	9.80	0.00	0.00	0.00	38.00	0.00	0.00	0.00
6/18/15 9:45 AM	226.00	3.40	245.10	19.60	0.00	19.60	39.70	245.10	10.20	0.00	0.00	0.00	36.40	0.00	0.00	0.00
6/18/15 10:00 AM	220.00	4.50	212.30	20.10	0.00	20.10	34.00	212.30	10.70	0.00	42.50	42.50	0.00	0.00	0.00	0.00
6/18/15 10:15 AM	224.00	5.30	191.50	19.90	0.00	19.90	32.20	191.50	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/18/15 10:30 AM	211.00	5.10	158.50	20.90	0.00	20.90	32.50	158.50	11.20	0.00	50.10	50.10	0.00	0.00	0.00	0.00
6/18/15 10:45 AM	232.00	4.20	138.90	20.50	0.00	20.50	33.30	138.90	10.90	0.00	0.00	0.00	54.10	0.00	0.00	0.00
6/18/15 11:00 AM	220.00	6.50	114.00	21.10	0.00	21.10	33.50	114.00	11.40	0.00	63.80	63.80	0.00	0.00	0.00	0.00
6/18/15 11:15 AM	234.00	4.80	79.70	19.50	0.00	19.50	23.50	79.70	9.60	0.00	0.00	0.00	66.50	0.00	0.00	0.00
6/18/15 11:30 AM	229.00	3.80	48.30	16.10	0.00	16.10	18.10	48.30	7.50	0.00	0.00	0.00	66.10	0.00	0.00	0.00
6/18/15 11:45 AM	225.00	6.60	0.00	11.50	0.00	11.50	11.30	0.00	6.30	0.00	0.00	0.00	74.80	0.00	0.00	0.00
6/18/15 12:00 PM	228.00	6.30	0.00	11.40	0.00	11.40	8.60	0.00	6.60	0.00	0.00	0.00	67.80	0.00	0.00	0.00
6/18/15 12:15 PM	238.00	5.50	0.00	10.00	0.00	10.00	5.60	0.00	5.60	0.00	0.00	0.00	70.80	0.00	0.00	0.00
6/18/15 12:30 PM	227.00	4.70	0.00	8.40	0.00	8.40	4.20	0.00	4.70	0.00	0.00	0.00	69.80	0.00	0.00	0.00
6/18/15 12:45 PM	240.00	5.80	0.00	7.40	0.00	7.40	2.90	0.00	4.40	0.00	0.00	0.00	69.20	0.00	0.00	0.00
6/18/15 1:00 PM	262.00	4.20	0.00	8.50	0.00	8.50	3.60	0.00	5.20	0.00	0.00	0.00	65.10	0.00	0.00	0.00
6/18/15 1:15 PM	265.00	5.20	0.00	10.20	0.00	10.20	4.60	0.00	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/18/15 1:30 PM	250.00	5.30	12.00	12.40	0.40	12.40	5.70	12.00	7.60	0.00	0.00	0.00	54.80	0.00	0.00	0.00
6/18/15 1:45 PM	267.00	7.40	10.50	12.60	2.10	12.60	5.40	10.50	7.00	0.00	0.00	0.00	53.20	0.00	0.00	0.00
6/18/15 2:00 PM	259.00	4.10	11.80	11.80	0.00	11.80	5.80	11.80	7.10	0.00	0.00	0.00	56.40	0.00	0.00	0.00
6/18/15 2:15 PM	263.00	7.10	10.60	10.30	0.00	10.30	5.50	10.60	5.90	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6/18/15 2:30 PM	257.00	6.30	4.40	10.40	6.00	10.40	4.60	4.40	5.80	0.00	0.00	0.00	61.30	0.00	0.00	0.00
6/18/15 2:45 PM	264.00	5.80	8.10	10.20	2.10	10.20	3.70	8.10	5.70	0.00	0.00	0.00	62.20	0.00	0.00	0.00
6/18/15 3:00 PM	249.00	7.00	0.00	10.50	10.50	10.50	2.80	0.00	6.30	0.00	0.00	0.00	72.40	0.00	0.00	0.00
6/18/15 3:15 PM	287.00	5.70	6.20	2.30	0.00	9.80	2.30	-0.10	6.20	0.00	0.00	0.00	74.90	0.00	0.00	0.00
6/18/15 3:30 PM	254.00	6.00	0.00	9.60	9.60	9.60	1.40	0.00	6.50	0.00	3.20	3.20	71.30	3.20	0.00	0.00
6/18/15 3:45 PM	260.00	3.90	-4.90	9.50	14.40	9.50	0.60	-4.90	6.40	0.00	2.30	2.30	71.80	2.30	0.00	0.00
6/18/15 4:00 PM	258.00	6.00	-5.00	9.60	14.60	9.60	0.70	-5.00	6.10	0.00	0.00	0.00	75.40	0.00	0.00	0.00
6/18/15 4:15 PM	262.00	4.60	2.00	9.80	7.80	9.80	0.90	2.00	5.80	0.00	2.90	2.90	74.00	2.90	0.00	0.00
6/18/15 4:30 PM	275.00	5.90	6.00	0.90	0.00	9.80	0.90	0.60	6.00	0.00	3.40	3.40	76.90	3.40	0.00	0.00
6/18/15 4:45 PM	284.00	5.60	6.30	1.00	0.00	10.30	1.00	4.00	6.30	0.00	0.00	0.00	71.40	0.00	0.00	0.00
6/18/15 5:00 PM	283.00	5.50	7.50	0.90	0.00	10.20	0.90	1.40	7.50	0.00	0.00	0.00	75.80	0.00	0.00	0.00
6/18/15 5:15 PM	281.00	3.60	4.80	0.50	0.00	6.60	0.50	-4.50	4.80	0.00	0.00	0.00	72.60	0.00	0.00	0.00
6/18/15 5:30 PM	300.00	7.70	4.60	0.90	0.00	6.80	0.90	0.20	4.60	0.00	0.00	0.00	75.90	0.00	0.00	0.00
6/18/15 5:45 PM	297.00	4.00	5.60	2.20	0.00	8.40	2.20	6.00	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/18/15 6:00 PM	293.00	5.30	6.30	3.60	0.00	8.80	3.60	7.70	6.30	7.80	0.00	0.00	74.00	0.00	0.00	7.80
6/18/15 6:15 PM	281.00	5.80	4.40	3.60	0.00	7.80	3.60	3.00	4.40	11.60	8.40	0.00	1.90	8.40	0.00	11.60
6/18/15 6:30 PM	296.00	4.30	4.50	4.20	0.00	7.30	4.20	4.20	4.50	22.90	13.60	0.00	82.00	13.60	0.00	22.90
6/18/15 6:45 PM	270.00	3.10	5.10	5.20	0.10	7.40	5.20	7.00	5.10	13.90	17.60	3.70	82.80	17.60	0.00	13.90
6/18/15 7:00 PM	297.00	4.60	5.20	6.00	0.80	8.50	6.00	8.80	5.20	8.00	28.30	20.30	87.60	28.30	0.00	8.00
6/18/15 7:15 PM	273.00	3.40	4.60	6.10	1.50	8.30	6.10	3.60	4.60	11.20	27.30	16.20	10.20	27.30	0.00	11.20
6/18/15 7:30 PM	279.00	3.60	4.60	5.40	0.80											



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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
6/19/15 3:45 AM	19.00	6.90	4.30	-1.60	0.00	4.30	0.20	-1.60	0.20	0.00	0.00	0.00	0.00	57.80	0.00	0.00
6/19/15 4:00 AM	18.00	5.70	14.90	0.10	0.00	14.90	1.60	0.10	0.40	0.00	0.00	0.00	0.00	43.50	0.00	0.00
6/19/15 4:15 AM	21.00	7.00	8.40	3.50	0.00	8.40	3.00	3.50	0.70	0.00	0.00	0.00	0.00	47.10	0.00	0.00
6/19/15 4:30 AM	16.00	7.20	5.40	1.40	0.00	5.40	1.30	1.40	0.70	0.00	0.00	0.00	0.00	47.10	0.00	0.00
6/19/15 4:45 AM	17.00	7.10	9.70	4.10	0.00	9.70	-0.20	4.10	1.10	0.00	0.00	0.00	0.00	42.60	0.00	0.00
6/19/15 5:00 AM	18.00	7.20	7.80	6.60	0.00	7.80	-0.50	6.60	1.10	0.00	0.00	0.00	0.00	40.50	0.00	0.00
6/19/15 5:15 AM	13.00	7.00	6.20	5.80	0.00	6.20	0.10	5.80	1.00	44.60	0.00	0.00	44.60	41.20	0.00	0.00
6/19/15 5:30 AM	17.00	7.00	9.90	22.00	12.10	9.90	-0.60	22.00	1.40	0.00	0.00	0.00	0.00	43.60	0.00	0.00
6/19/15 5:45 AM	16.00	8.30	9.00	9.00	0.00	9.00	2.00	9.00	1.30	0.00	0.00	0.00	0.00	50.60	0.00	0.00
6/19/15 6:00 AM	20.00	6.50	14.30	9.10	0.00	14.30	0.70	9.10	1.10	0.00	0.00	0.00	0.00	47.20	0.00	0.00
6/19/15 6:15 AM	14.00	7.10	8.00	17.50	9.50	8.00	-0.50	17.50	1.50	0.00	0.00	0.00	0.00	47.30	0.00	0.00
6/19/15 6:30 AM	7.00	7.60	17.40	11.60	0.00	17.40	-0.30	11.60	1.10	0.00	0.00	0.00	0.00	49.10	0.00	0.00
6/19/15 6:45 AM	27.00	7.30	12.40	21.10	8.70	12.40	-0.50	21.10	1.80	0.00	0.00	0.00	0.00	48.20	0.00	0.00
6/19/15 7:00 AM	18.00	6.40	13.10	18.50	5.40	13.10	0.00	18.50	1.50	0.00	0.00	0.00	0.00	55.70	0.00	0.00
6/19/15 7:15 AM	8.00	7.30	9.60	17.60	8.00	9.60	1.30	17.60	1.60	45.40	0.00	0.00	45.40	46.30	0.00	0.00
6/19/15 7:30 AM	21.00	6.80	9.10	13.40	4.30	9.10	1.60	13.40	1.50	0.00	0.00	0.00	0.00	44.60	0.00	0.00
6/19/15 7:45 AM	18.00	6.90	0.00	9.80	0.00	0.00	1.80	9.80	1.40	0.00	0.00	0.00	0.00	45.30	0.00	0.00
6/19/15 8:00 AM	17.00	7.20	11.80	10.40	0.00	11.80	0.90	10.40	1.40	0.00	0.00	0.00	0.00	44.00	0.00	0.00
6/19/15 8:15 AM	21.00	7.10	8.80	11.80	3.00	8.80	-0.50	11.80	1.40	0.00	0.00	0.00	0.00	47.60	0.00	0.00
6/19/15 8:30 AM	18.00	6.70	10.20	36.30	26.10	10.20	-0.40	36.30	1.50	0.00	0.00	0.00	0.00	44.70	0.00	0.00
6/19/15 8:45 AM	15.00	6.50	11.00	31.10	20.10	11.00	-0.10	31.10	1.80	0.00	0.00	0.00	0.00	40.80	0.00	0.00
6/19/15 9:00 AM	17.00	7.50	12.80	27.20	14.40	12.80	0.50	27.20	2.00	0.00	0.00	0.00	0.00	41.50	0.00	0.00
6/19/15 9:15 AM	30.00	5.10	11.90	12.50	0.60	11.90	0.70	12.50	2.00	0.00	0.00	0.00	0.00	36.90	0.00	0.00
6/19/15 9:30 AM	18.00	4.50	10.80	14.40	3.60	10.80	1.20	14.40	2.00	0.00	0.00	0.00	0.00	44.90	0.00	0.00
6/19/15 9:45 AM	5.00	5.40	8.60	23.60	15.00	8.60	2.60	23.60	2.20	0.00	0.00	0.00	0.00	60.70	0.00	0.00
6/19/15 10:00 AM	359.00	6.00	4.20	0.90	0.00	6.30	0.90	29.70	4.20	0.00	0.00	0.00	0.00	61.90	0.00	0.00
6/19/15 10:15 AM	358.00	6.70	3.00	1.70	0.00	11.70	1.70	25.00	3.00	0.00	0.00	0.00	0.00	63.90	0.00	0.00
6/19/15 10:30 AM	5.00	7.80	18.60	24.20	5.60	18.60	1.50	24.20	2.20	0.00	0.00	0.00	0.00	58.00	0.00	0.00
6/19/15 10:45 AM	8.00	8.80	13.30	6.30	0.00	13.30	1.80	6.30	2.10	0.00	0.00	0.00	0.00	49.20	0.00	0.00
6/19/15 11:00 AM	2.00	6.80	17.20	4.00	0.00	17.20	2.30	4.00	1.50	0.00	0.00	0.00	0.00	53.40	0.00	0.00
6/19/15 11:15 AM	27.00	4.60	8.80	4.60	0.00	8.80	2.60	4.60	2.00	0.00	0.00	0.00	0.00	51.00	0.00	0.00
6/19/15 11:30 AM	20.00	5.00	5.40	3.20	0.00	5.40	3.30	3.20	1.50	22.10	0.00	0.00	22.10	62.50	0.00	0.00
6/19/15 11:45 AM	8.00	9.60	6.60	3.90	0.00	6.60	1.80	3.90	1.60	22.60	0.00	0.00	22.60	65.80	0.00	0.00
6/19/15 12:00 PM	8.00	9.40	6.30	2.60	0.00	6.30	2.70	2.60	1.60	14.50	0.00	0.00	14.50	66.60	0.00	0.00
6/19/15 12:15 PM	3.00	8.80	25.80	3.40	0.00	25.80	2.50	3.40	1.90	51.70	0.00	0.00	51.70	62.00	0.00	0.00
6/19/15 12:30 PM	4.00	6.90	9.70	14.40	4.70	9.70	1.20	14.40	2.90	0.00	0.00	0.00	0.00	46.60	0.00	0.00
6/19/15 12:45 PM	7.00	8.00	21.80	32.10	10.30	21.80	1.20	32.10	2.50	0.00	0.00	0.00	0.00	50.30	0.00	0.00
6/19/15 1:00 PM	8.00	8.10	8.10	2.90	0.00	8.10	2.00	2.90	0.80	40.30	0.00	0.00	40.30	59.90	0.00	0.00
6/19/15 1:15 PM	8.00	9.10	7.00	1.20	0.00	7.00	7.30	1.20	1.70	0.00	0.00	0.00	0.00	51.30	0.00	0.00
6/19/15 1:30 PM	4.00	8.70	12.40	2.30	0.00	12.40	12.20	2.30	1.70	45.10	0.00	0.00	45.10	49.60	0.00	0.00
6/19/15 1:45 PM	5.00	8.10	0.00	5.70	0.00	0.00	4.70	5.70	1.70	0.00	0.00	0.00	0.00	49.10	0.00	0.00
6/19/15 2:00 PM	10.00	8.60	13.70	5.40	0.00	13.70	10.40	5.40	1.60	0.00	0.00	0.00	0.00	43.60	0.00	0.00
6/19/15 2:15 PM	2.00	7.50	12.20	4.60	0.00	12.20	7.90	4.60	2.00	0.00	0.00	0.00	0.00	47.20	0.00	0.00
6/19/15 2:30 PM	5.00	8.00	7.50	5.90	0.00	7.50	6.70	5.90	1.70	0.00	0.00	0.00	0.00	53.90	0.00	0.00
6/19/15 2:45 PM	3.00	7.20	13.60	7.00	0.00	13.60	15.40	7.00	2.00	0.00	0.00	0.00	0.00	51.60	0.00	0.00
6/19/15 3:00 PM	24.00	6.10	7.50	7.00	0.00	7.50	8.40	7.00	2.00	17.00	0.00	0.00	17.00	48.40	0.00	0.00
6/19/15 3:15 PM	4.00	5.90	0.00	10.50	0.00	0.00	7.10	10.50	2.50	0.00	0.00	0.00	0.00	45.60	0.00	0.00
6/19/15 3:30 PM	5.00	6.20	10.50	14.20	3.70	10.50	7.00	14.20	3.10	0.00	0.00	0.00	0.00	41.20	0.00	0.00
6/19/15 3:45 PM	4.00	7.10	29.00	12.50	0.00	29.00	6.80	12.50	2.60	0.00	0.00	0.00	0.00	42.70	0.00	0.00
6/19/15 4:00 PM	4.00	7.90	16.30	14.20	0.00	16.30	6.30	14.20	2.80	0.00	0.00	0.00	0.00	35.00	0.00	0.00
6/19/15 4:15 PM	5.00	7.90	15.00	19.40	4.40	15.00	8.70	19.40	3.10	0.00	0.00	0.00	0.00	34.10	0.00	0.00
6/19/15 4:30 PM	14.00	6.90	16.20	16.00	0.00	16.20	8.60	16.00	3.30	0.00	0.00	0.00	0.00	28.00	0.00	0.00
6/19/15 4:45 PM	28.00	8.50	20.50	18.90	0.00	20.50	9.30	18.90	2.80	0.00	0.00	0.00	0.00	33.80	0.00	0.00
6/19/15 5:00 PM	13.00	6.30	7.80	12.20	4.40	7.80	10.40	12.20	2.20	0.00	0.00	0.00	0.00	36.40	0.00	0.00
6/19/15 5:15 PM	22.00	5.30	14.20	8.20	0.00	14.20	9.00	8.20	2.10	0.00	0.00	0.00	0.00	42.50	0.00	0.00
6/19/15 5:30 PM	22.00	5.10	9.60	7.50	0.00	9.60	4.90	7.50	2.30	0.00	0.00	0.00	0.00	41.30	0.00	0.00
6/19/15 5:45 PM	14.00	4.90	17.00	14.10	0.00	17.00	4.70	14.10	3.50	0.00	0.00	0.00	0.00	33.60	0.00	0.00
6/19/15 6:00 PM	33.00	4.90	16.30	34.30	18.00	16.30	1.40	34.30	3.40	0.00	0.00	0.00	0.00	40.60	0.00	0.00
6/19/15 6:15 PM	23.00	6.40	9.30	26.40	17.10	9.30	1.60	26.40	4.00	0.00	0.00	0.00	0.00	28.00	0.00	0.00
6/19/15 6:30 PM	20.00	4.60	10.40	32.20	21.80	10.40	1.10	32.20	7.20	0.00	0.00	0.00	0.00	29.20	0.00	0.00
6/19/15 6:45 PM	29.00	4.50	12.00	29.80	17.80	12.00	0.70	29.80	5.20	0.00	0.00	0.00	0.00	36.40	0.00	0.00
6/19/15 7:00 PM	16.00	6.70	6.50	11.00	4.50	6.50	1.30	11.00	7.30	0.00	0.00	0.00	0.00	41.40	0.00	0.00
6/19/15 7:15 PM	15.00	3.70	13.60	31.70	18.10	13.60	6.90	31.70	2.40	0.00	0.00	0.00	0.00	56.90	0.00	0.00
6/19/15 7:30 PM	19.00	6.40	7.20	25.90	18.70	7.20	-1.20	25.90	2.70	0.00	0.00	0.00	0.00	54.00	0.00	0.00
6/19/15 7:45 PM	15.00	7.00	9.80	34.20	24.40	9.80	-1.20	34.20	1.90	0.00	0.00	0.00	0.00	56.20	0.00	0.00
6/19/15 8:00 PM	20.00	5.10	16.70	13.50	0.00	16.70	-1.50	13.50	1.70	0.00	0.00	0.00	0.00	63.20	0.00	0.00
6/19/15 8:15 PM	31.00	5.10	15.40	1.80	0.00	15.40	1.10	1.80	1.30	0.00	0.00	0.00	0.00	60.10	0.00	0.00
6/19/15 8:30 PM	31.00	5.50	11.70	0.90	0.00	11.70	4.60	0.90	1.10	0.00	0.00	0.00	0.00	39.80	0.00	0.00
6/19/15 8:45 PM	25.00	3.90	11.90	2.90	0.00	11.90	-1.40	2.90	1.60	0.00	0.00	0.00	0.00	41.70	0.00	0.00
6/19/15 9:00 PM	26.00	4.20	13.30	6.90	0.00	13.30	-0.10	6.90	0.50	0.00	0.00	0.00	0.00	41.90		



**US Army Corps
of Engineers®**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
June 2015

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		
6/20/15 5:00 AM	341.00	1.70	3.20	30.50	27.30	0.00	30.50	33.20	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/15 5:15 AM	336.00	2.80	2.80	36.90	34.10	5.70	36.90	32.40	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/15 5:30 AM	353.00	2.70	3.70	21.80	18.10	6.10	21.80	27.90	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/15 5:45 AM	356.00	2.40	3.70	31.00	27.30	7.00	31.00	29.60	3.70	0.00	0.00	0.00	0.00	0.00	0.00	3.90		
6/20/15 6:00 AM	49.00	1.60	6.60	28.90	22.30	6.60	26.10	28.90	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/15 6:15 AM	62.00	1.50	6.70	31.10	24.40	6.70	29.40	31.10	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/15 6:30 AM	3.00	0.40	8.70	34.20	25.50	8.70	29.30	34.20	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/15 6:45 AM	282.00	1.00	8.10	35.70	27.60	13.30	35.70	43.00	8.10	0.00	4.60	4.60	0.00	4.60	0.00	0.00		
6/20/15 7:00 AM	296.00	1.70	8.90	48.80	39.90	18.10	48.80	46.20	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/15 7:15 AM	322.00	3.20	9.20	46.50	37.30	15.00	46.50	51.40	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/15 7:30 AM	354.00	1.20	13.60	85.90	72.30	23.80	85.90	63.20	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/15 7:45 AM	33.00	1.60	25.40	85.00	59.60	25.40	80.50	85.00	10.60	0.00	0.00	0.00	0.00	0.00	0.00	13.10		
6/20/15 8:00 AM	346.00	3.00	14.00	51.20	37.20	22.80	51.20	52.60	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/15 8:15 AM	351.00	3.20	12.20	53.40	41.20	25.30	53.40	52.90	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/15 8:30 AM	357.00	2.80	13.10	54.00	40.90	18.40	54.00	51.10	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/15 8:45 AM	348.00	3.00	12.10	51.60	39.50	0.00	51.60	47.50	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/15 9:00 AM	349.00	2.40	9.50	38.60	29.10	22.40	38.60	41.50	9.50	0.00	0.00	0.00	0.00	1.60	0.00	0.00		
6/20/15 9:15 AM	359.00	2.60	9.60	32.80	23.20	17.10	32.80	31.90	9.60	4.90	0.00	0.00	4.90	9.40	0.00	2.30		
6/20/15 9:30 AM	348.00	2.80	9.70	31.70	22.00	17.10	31.70	30.20	9.70	4.90	0.00	0.00	4.90	7.60	0.00	2.60		
6/20/15 9:45 AM	349.00	3.00	8.40	27.50	19.10	15.10	27.50	27.60	8.40	11.50	0.00	0.00	11.50	22.50	0.00	2.60		
6/20/15 10:00 AM	325.00	2.50	9.30	23.80	14.50	14.70	23.80	21.80	9.30	5.30	0.00	0.00	5.30	15.20	0.00	4.50		
6/20/15 10:15 AM	345.00	3.80	8.70	22.90	14.20	17.30	22.90	19.30	8.70	10.80	0.00	0.00	10.80	27.00	0.00	3.60		
6/20/15 10:30 AM	350.00	4.30	7.70	21.20	13.50	16.80	21.20	18.90	7.70	0.00	0.00	0.00	0.00	38.70	0.00	2.80		
6/20/15 10:45 AM	3.00	5.20	17.80	18.10	0.30	17.80	18.00	18.10	8.80	30.70	0.00	0.00	30.70	38.30	0.00	4.00		
6/20/15 11:00 AM	354.00	4.80	10.00	19.50	9.50	20.20	19.50	19.10	10.00	27.90	0.00	0.00	27.90	35.00	0.00	5.20		
6/20/15 11:15 AM	350.00	4.60	9.30	22.00	12.70	26.00	22.00	20.10	9.30	0.00	0.00	0.00	0.00	35.40	0.00	0.00		
6/20/15 11:30 AM	18.00	3.20	21.70	20.10	0.00	21.70	20.70	20.10	11.50	38.80	0.00	0.00	38.80	29.80	0.00	0.00		
6/20/15 11:45 AM	56.00	2.50	20.80	20.60	0.00	20.80	21.30	20.60	11.10	31.50	0.00	0.00	33.60	31.50	0.00	0.00		
6/20/15 12:00 PM	65.00	2.40	22.70	21.90	0.00	22.70	21.10	21.90	12.00	30.90	0.00	0.00	22.20	30.90	0.00	0.00		
6/20/15 12:15 PM	63.00	2.10	21.50	22.00	0.50	21.50	22.70	22.00	12.90	30.90	0.00	0.00	0.00	17.10	30.90	0.00		
6/20/15 12:30 PM	102.00	1.00	24.60	12.60	0.00	21.50	24.60	24.00	12.60	35.30	0.00	0.00	0.00	17.00	35.30	0.00		
6/20/15 12:45 PM	133.00	2.80	21.70	12.90	0.00	20.80	21.70	30.10	12.90	33.70	0.00	0.00	0.00	33.70	0.00	0.00		
6/20/15 1:00 PM	126.00	2.60	23.70	14.30	0.00	23.50	23.70	30.60	14.30	34.50	10.80	0.00	0.00	34.50	0.00	10.80		
6/20/15 1:15 PM	139.00	1.60	35.30	22.80	0.00	37.60	35.30	35.80	22.80	0.00	0.00	0.00	0.00	33.40	0.00	9.40		
6/20/15 1:30 PM	131.00	4.30	42.90	25.50	0.00	42.30	42.90	42.30	25.50	29.50	4.70	0.00	0.00	29.50	0.00	4.70		
6/20/15 1:45 PM	153.00	2.70	37.70	29.80	0.00	48.80	37.70	44.80	29.80	0.00	0.00	0.00	0.00	0.00	0.00	22.70		
6/20/15 2:00 PM	180.00	4.20	48.40	55.10	6.70	55.10	46.50	48.40	31.20	0.00	0.00	0.00	0.00	0.00	0.00	21.10		
6/20/15 2:15 PM	162.00	6.20	45.00	34.20	0.00	60.80	45.00	52.60	34.20	0.00	0.00	0.00	0.00	0.00	0.00	18.60		
6/20/15 2:30 PM	179.00	7.50	42.00	28.80	0.00	46.30	42.00	49.10	28.80	0.00	0.00	0.00	0.00	0.00	0.00	29.70		
6/20/15 2:45 PM	185.00	5.60	44.30	48.80	4.50	48.80	43.80	44.30	29.50	0.00	0.00	0.00	0.00	0.00	0.00	22.80		
6/20/15 3:00 PM	180.00	5.90	40.90	41.00	0.10	41.00	34.60	40.90	21.50	0.00	18.40	18.40	18.40	0.00	0.00	21.60		
6/20/15 3:15 PM	193.00	4.10	37.90	31.30	0.00	31.30	30.40	37.90	17.90	0.00	0.00	0.00	0.00	0.00	0.00	33.90		
6/20/15 3:30 PM	219.00	5.20	39.20	33.80	0.00	33.80	34.30	39.20	17.70	0.00	0.00	0.00	0.00	0.00	0.00	37.80		
6/20/15 3:45 PM	198.00	3.90	42.10	34.80	0.00	34.80	55.20	42.10	17.00	0.00	0.00	0.00	0.00	0.00	0.00	38.50		
6/20/15 4:00 PM	210.00	3.80	38.10	28.60	0.00	28.60	32.80	38.10	16.00	0.00	0.00	0.00	0.00	0.00	0.00	35.40		
6/20/15 4:15 PM	209.00	5.10	38.40	29.40	0.00	29.40	30.50	38.40	14.50	0.00	0.00	0.00	0.00	0.00	0.00	35.20		
6/20/15 4:30 PM	208.00	4.30	36.80	26.10	0.00	26.10	30.10	36.80	14.20	0.00	0.00	0.00	0.00	0.00	0.00	29.70		
6/20/15 4:45 PM	188.00	7.20	35.40	23.40	0.00	23.40	27.40	35.40	12.00	0.00	30.70	30.70	30.70	0.00	0.00	18.00		
6/20/15 5:00 PM	209.00	5.90	44.70	32.70	0.00	32.70	35.50	44.70	19.00	0.00	21.30	21.30	21.30	0.00	0.00	22.20		
6/20/15 5:15 PM	287.00	4.70	19.40	41.40	22.00	37.10	41.40	45.40	19.40	26.10	0.00	0.00	29.50	0.00	0.00	26.10		
6/20/15 5:30 PM	272.00	4.10	18.00	40.20	22.20	38.20	40.20	46.40	18.00	25.50	0.00	0.00	0.00	0.00	0.00	25.50		
6/20/15 5:45 PM	267.00	2.90	37.40	32.10	0.00	32.10	37.00	37.40	15.70	33.10	0.00	0.00	0.00	26.90	0.00	33.10		
6/20/15 6:00 PM	247.00	3.90	29.20	27.90	0.00	27.90	30.00	29.20	15.80	29.10	0.00	0.00	0.00	0.00	0.00	29.10		
6/20/15 6:15 PM	244.00	3.70	32.40	19.60	0.00	19.60	25.90	32.40	11.10	17.20	0.00	0.00	0.00	26.20	0.00	17.20		
6/20/15 6:30 PM	227.00	4.30	32.40	19.60	0.00	19.60	26.50	32.40	10.90	17.00	0.00	0.00	0.00	26.20	0.00	17.00		
6/20/15 6:45 PM	225.00	2.50	31.90	19.30	0.00	19.30	27.70	31.90	11.70	32.60	0.00	0.00	0.00	28.30	0.00	32.60		
6/20/15 7:00 PM	204.00	3.20	32.90	20.20	0.00	20.20	28.00	32.90	11.60	0.00	31.60	31.60	31.60	0.00	0.00	20.10		
6/20/15 7:15 PM	218.00	2.60	29.50	16.50	0.00	16.50	27.30	29.50	10.10	0.00	42.70	42.70	42.70	0.00	0.00	19.20		
6/20/15 7:30 PM	230.00	2.80	25.90	19.40	0.00	19.40	27.20	25.90	11.10	20.30	0.00	0.00	0.00	28.70	0.00	20.30		
6/20/15 7:45 PM	260.00	3.40	26.70	19.70	0.00	19.70	27.50	26.70	10.90	20.30	0.00	0.00	0.00	0.00	0.00	20.30		
6/20/15 8:00 PM	251.00	2.50	25.90	17.60	0.00	17.60	26.00	25.90	10.60	21.20	0.00	0.00	0.00	37.70	0.00	21.20		
6/20/15 8:15 PM	175.00	1.60	26.00	10.40	0.00	18.10	26.00	27.70	10.40	0.00	53.50	53.50	53.50	0.00	0.00	29.90		
6/20/15 8:30 PM	179.00	2.40	28.30	10.80	0.00	19.10	28.30	29.70	10.80	0.00	27.50	27.50	27.50	0.00	0.00	16.40		
6/20/15 8:45 PM	149.00	1.70	30.70	12.60	0.00	20.30	30.70	31.80	12.60	0.00	21.70	21.70	21.70	0.00	0.00	15.50		
6/20/15 9:00 PM	193.00	2.50	29.60	20.90	0.00	20.90	29.70	29.60	13.10	0.00	15.80	15.80	15.80	0.00	0.00	12.90		
6/20/15 9:15 PM	35.00	0.60	22.30	29.90	7.60	22.30	30.40	29.90	14.20	17.50	0.00	0.00	0.00	17.50	0.00	14.00		
6/20/15 9:30 PM	333.00	5.20	14.30	32.40	18.10	23.00	32.40	35.00	14.30	0.00	0.00	0.00	0.00	0.00	0.00	47.60		
6/20/15 9:45 PM	296.00	5.10	15.00	33.70	18.70	25.20	33.70	43.10	15.00	74.30	0.00	0.00	49.80	0.00				



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Real-Time Air Monitoring Data
June 2015

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)								Naphthalene (µg/m³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
6/21/15 6:15 AM	204.00	4.80	20.20	8.80	0.00	8.80	13.80	20.20	4.80	0.00	15.80	15.80	0.00	0.00	0.00			
6/21/15 6:30 AM	243.00	3.40	21.20	8.60	0.00	8.60	14.40	21.20	4.80	0.00	0.00	0.00	17.50	0.00	0.00	0.00		
6/21/15 6:45 AM	220.00	3.80	18.60	7.60	0.00	7.60	11.80	18.60	4.70	0.00	26.80	26.80	0.00	0.00	0.00			
6/21/15 7:00 AM	229.00	3.00	18.30	7.10	0.00	7.10	11.70	18.30	4.20	0.00	0.00	0.00	22.80	0.00	0.00	0.00		
6/21/15 7:15 AM	207.00	2.60	18.70	7.80	0.00	7.80	11.90	18.70	4.10	0.00	23.20	23.20	0.00	0.00	0.00	0.00		
6/21/15 7:30 AM	251.00	3.20	17.60	6.80	0.00	6.80	11.20	17.60	4.20	0.00	0.00	0.00	23.50	0.00	0.00	0.00		
6/21/15 7:45 AM	250.00	4.40	18.00	7.40	0.00	7.40	11.90	18.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/15 8:00 AM	229.00	4.70	18.30	7.40	0.00	7.40	12.00	18.30	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/15 8:15 AM	327.00	3.40	4.20	12.00	7.80	7.50	12.00	18.00	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/15 8:30 AM	297.00	3.60	3.90	11.90	8.00	8.60	11.90	19.60	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/15 8:45 AM	280.00	3.30	4.10	12.40	8.30	7.60	12.40	19.20	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/15 9:00 AM	278.00	3.50	4.70	12.70	8.00	8.10	12.70	19.40	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/15 9:15 AM	283.00	4.10	5.10	13.80	8.70	9.40	13.80	17.60	5.10	0.00	0.00	0.00	8.00	0.00	0.00	0.00		
6/21/15 9:30 AM	262.00	3.00	16.70	11.00	0.00	11.00	15.60	16.70	6.20	0.00	0.00	0.00	7.40	0.00	0.00	0.00		
6/21/15 9:45 AM	252.00	4.00	17.20	14.20	0.00	14.20	18.70	17.20	7.70	0.00	2.70	2.70	8.30	2.70	0.00	0.00		
6/21/15 10:00 AM	232.00	3.80	17.70	0.00	0.00	0.00	18.90	17.70	8.00	0.00	5.90	5.90	0.00	5.90	0.00	0.00		
6/21/15 10:15 AM	248.00	2.90	16.30	15.30	0.00	15.30	20.40	16.30	7.30	0.00	3.50	3.50	4.70	3.50	0.00	0.00		
6/21/15 10:30 AM	250.00	2.50	15.30	15.60	0.30	15.60	20.60	15.30	8.40	0.00	0.00	0.00	5.30	0.00	0.00	0.00		
6/21/15 10:45 AM	250.00	4.30	15.70	17.00	1.30	17.00	20.70	15.70	8.90	0.00	0.00	0.00	6.50	0.00	0.00	0.00		
6/21/15 11:00 AM	279.00	4.50	8.70	20.30	11.60	17.10	20.30	15.50	8.70	0.00	0.00	0.00	6.90	0.00	0.00	0.00		
6/21/15 11:15 AM	265.00	3.00	11.80	16.60	4.80	16.60	16.20	11.80	8.40	0.00	0.00	0.00	14.20	0.00	0.00	0.00		
6/21/15 11:30 AM	246.00	3.50	9.70	0.00	0.00	0.00	15.80	9.70	8.70	0.00	3.90	3.90	0.00	3.90	0.00	0.00		
6/21/15 11:45 AM	271.00	4.00	8.40	15.70	7.30	16.10	15.70	9.00	8.40	0.00	0.00	0.00	9.00	0.00	0.00	0.00		
6/21/15 12:00 PM	303.00	3.50	8.40	17.10	8.70	16.40	17.10	7.60	8.40	0.00	0.00	0.00	6.90	0.00	0.00	0.00		
6/21/15 12:15 PM	285.00	3.40	8.50	15.30	6.80	17.30	15.30	6.20	8.50	0.00	0.00	0.00	8.20	0.00	0.00	0.00		
6/21/15 12:30 PM	256.00	3.60	5.90	16.70	10.80	16.70	15.10	5.90	8.70	0.00	0.00	0.00	10.00	0.00	0.00	0.00		
6/21/15 12:45 PM	330.00	2.30	8.70	14.00	5.30	16.50	14.00	4.40	8.70	12.70	0.00	0.00	12.70	0.00	0.00	0.00		
6/21/15 1:00 PM	252.00	3.20	3.30	16.60	13.30	16.60	12.90	3.30	9.10	0.00	0.00	0.00	10.00	0.00	0.00	0.00		
6/21/15 1:15 PM	262.00	3.70	3.20	15.90	12.70	15.90	13.40	3.20	8.20	0.00	0.00	0.00	10.00	0.00	0.00	0.00		
6/21/15 1:30 PM	245.00	2.60	1.60	0.00	0.00	0.00	10.00	1.60	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/15 1:45 PM	235.00	3.20	1.50	14.60	13.10	14.60	9.50	1.50	8.30	0.00	3.40	3.40	18.00	3.40	0.00	0.00		
6/21/15 2:00 PM	264.00	4.20	0.90	12.20	11.30	12.20	7.50	0.90	7.90	0.00	3.40	3.40	0.00	3.40	0.00	0.00		
6/21/15 2:15 PM	189.00	3.60	0.80	11.60	10.80	11.60	7.40	0.80	7.70	0.00	0.00	0.00	7.10	0.00	0.00	0.00		
6/21/15 2:30 PM	243.00	3.00	0.50	10.70	10.20	10.70	5.90	0.50	7.10	0.00	0.00	0.00	12.30	0.00	0.00	0.00		
6/21/15 2:45 PM	243.00	4.40	0.60	10.50	9.90	10.50	4.50	0.60	7.40	0.00	0.00	0.00	12.00	0.00	0.00	0.00		
6/21/15 3:00 PM	288.00	4.50	6.60	4.50	0.00	9.20	4.50	0.50	6.60	0.00	0.00	0.00	12.30	0.00	0.00	0.00		
6/21/15 3:15 PM	209.00	5.80	0.50	0.00	0.00	0.00	3.10	0.50	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/15 3:30 PM	266.00	5.50	0.20	8.20	8.00	8.20	2.60	0.20	6.20	0.00	0.00	0.00	14.60	0.00	0.00	0.00		
6/21/15 3:45 PM	301.00	3.80	7.00	2.50	0.00	7.60	2.50	0.10	7.00	0.00	0.00	0.00	16.30	0.00	0.00	0.00		
6/21/15 4:00 PM	262.00	4.20	0.10	6.80	6.70	6.80	1.80	0.10	5.90	0.00	0.00	0.00	29.10	0.00	0.00	0.00		
6/21/15 4:15 PM	265.00	3.70	0.10	7.70	7.60	7.70	1.60	0.10	6.60	0.00	0.00	0.00	24.80	0.00	0.00	0.00		
6/21/15 4:30 PM	239.00	4.50	0.40	7.10	6.70	7.10	1.60	0.40	5.50	0.00	0.00	0.00	23.90	0.00	0.00	0.00		
6/21/15 4:45 PM	250.00	5.20	0.10	7.00	6.90	7.00	1.20	0.10	6.50	0.00	0.00	0.00	21.80	0.00	0.00	0.00		
6/21/15 5:00 PM	268.00	3.70	0.20	0.00	0.00	0.00	1.00	0.20	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/15 5:15 PM	253.00	4.70	0.20	6.30	6.10	6.30	1.10	0.20	6.80	1.70	0.00	0.00	16.00	0.00	0.00	1.70		
6/21/15 5:30 PM	281.00	5.00	6.70	0.70	0.00	6.20	0.70	0.10	6.70	0.00	0.00	0.00	18.20	0.00	0.00	0.00		
6/21/15 5:45 PM	264.00	2.70	0.20	6.40	6.20	6.40	1.10	0.20	6.40	0.00	0.00	0.00	16.50	0.00	0.00	0.00		
6/21/15 6:00 PM	267.00	1.70	0.30	5.10	4.80	5.10	1.30	0.30	6.40	0.00	0.00	0.00	12.30	0.00	0.00	0.00		
6/21/15 6:15 PM	266.00	2.10	0.40	0.00	0.00	0.00	1.40	0.40	8.10	0.00	2.50	2.50	0.00	2.50	0.00	0.00		
6/21/15 6:30 PM	250.00	3.30	0.30	6.00	5.70	6.00	1.00	0.30	5.90	0.00	0.00	0.00	16.10	0.00	0.00	0.00		
6/21/15 6:45 PM	254.00	3.60	0.10	4.60	4.50	4.60	0.70	0.10	5.60	4.70	0.00	0.00	16.00	0.00	0.00	4.70		
6/21/15 7:00 PM	255.00	3.50	0.10	4.80	4.70	4.80	0.40	0.10	5.20	6.60	14.60	8.00	19.20	14.60	0.00	6.60		
6/21/15 7:15 PM	239.00	4.00	0.30	5.10	4.80	5.10	0.80	0.30	4.90	10.10	0.00	0.00	24.40	0.00	0.00	10.10		
6/21/15 7:30 PM	233.00	2.40	5.70	15.60	9.90	15.60	7.30	5.70	12.10	0.00	0.00	0.00	6.90	0.00	0.00	0.00		
6/21/15 7:45 PM	233.00	3.30	10.20	14.60	4.40	14.60	12.00	10.20	12.20	0.00	0.00	0.00	8.00	0.00	0.00	0.00		
6/21/15 8:00 PM	225.00	3.10	11.90	17.60	5.70	17.60	14.80	11.90	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/15 8:15 PM	228.00	4.00	17.90	16.10	0.00	16.10	17.00	17.90	13.10	0.00	0.00	0.00	8.20	0.00	0.00	0.00		
6/21/15 8:30 PM	224.00	3.00	20.20	0.00	0.00	0.00	17.80	20.20	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/15 8:45 PM	226.00	3.10	21.00	13.90	0.00	13.90	18.10	21.00	11.30	0.00	0.00	0.00	7.00	0.00	0.00	0.00		
6/21/15 9:00 PM	212.00	2.20	19.20	14.50	0.00	14.50	16.90	19.20	11.00	0.00	8.40	8.40	8.40	0.00	0.00	0.00		
6/21/15 9:15 PM	222.00	1.80	20.90	14.90	0.00	14.90	16.90	20.90	10.80	0.00	8.00	8.00	8.00	0.00	0.00	0.00		
6/21/15 9:30 PM	204.00	2.00	20.00	14.20	0.00	14.20	16.70	20.00	10.20	0.00	6.70	6.70	6.70	0.00	0.00	0.00		
6/21/15 9:45 PM	197.00	2.40	22.00	15.90	0.00	15.90	16.10	22.00	10.70	0.00	4.30	4.30	4.30	0.00	0.00	0.00		
6/21/15 10:00 PM	205.00	1.60	25.40	15.00	0.00	15.00	17.10	25.40	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/15 10:15 PM	218.00	1.90	30.20	18.60	0.00	18.60	18.10	30.20	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/15 10:30 PM	204.00	1.80	31.80	15.90	0.00	15.90	19.10	31.80	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/15 10:45 PM	217.00	1.40	34.30	0.00	0.00	0.00	20.00	34.30	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/15 11:00 PM	196.00	1.40	34.80	15.20	0.00	15.20	21.10	34.80	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/15 11:15 PM	203.00	1.40	38.60	16.60	0.00	16.60	22.10	38.60	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/15 11:30 PM	210.00	1.50	41.50	17.70	0.00	17.70	22.40	41										



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June 2015

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
6/22/15 7:30 AM	181.00	6.10	345.80	19.30	0.00	19.30	46.20	345.80	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 7:45 AM	181.00	4.60	306.00	19.30	0.00	19.30	39.90	306.00	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 8:00 AM	179.00	4.30	33.00	10.70	0.00	17.20	33.00	202.60	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 8:15 AM	201.00	4.90	146.00	13.60	0.00	13.60	22.70	146.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 8:30 AM	184.00	4.80	67.20	11.00	0.00	11.00	15.40	67.20	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 8:45 AM	195.00	6.90	36.00	9.60	0.00	9.60	11.90	36.00	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 9:00 AM	198.00	3.60	11.60	8.60	0.00	8.60	10.10	11.60	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 9:15 AM	205.00	5.10	9.30	9.20	0.00	9.20	10.10	9.30	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 9:30 AM	210.00	4.90	8.90	10.10	1.20	10.10	10.50	8.90	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 9:45 AM	195.00	6.80	9.60	10.40	0.80	10.40	11.60	9.60	7.10	0.00	26.10	26.10	26.10	0.00	0.00	0.00
6/22/15 10:00 AM	214.00	3.70	11.70	11.50	0.00	11.50	12.90	11.70	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 10:15 AM	211.00	3.30	13.20	12.20	0.00	12.20	12.80	13.20	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 10:30 AM	222.00	3.70	14.40	11.80	0.00	11.80	12.90	14.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 10:45 AM	207.00	3.20	14.90	12.90	0.00	12.90	13.60	14.90	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 11:00 AM	198.00	3.90	17.10	12.90	0.00	12.90	14.10	17.10	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 11:15 AM	199.00	3.90	24.10	13.90	0.00	13.90	16.40	24.10	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 11:30 AM	223.00	4.70	33.20	14.90	0.00	14.90	18.00	33.20	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 11:45 AM	239.00	5.80	39.50	14.90	0.00	14.90	18.90	39.50	9.30	0.00	0.00	0.00	21.10	0.00	0.00	0.00
6/22/15 12:00 PM	245.00	5.80	43.00	14.50	0.00	14.50	20.60	43.00	9.50	0.00	0.00	0.00	22.60	0.00	0.00	0.00
6/22/15 12:15 PM	258.00	4.80	45.80	15.30	0.00	15.30	20.60	45.80	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 12:30 PM	255.00	4.80	54.90	15.60	0.00	15.60	22.70	54.90	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 12:45 PM	269.00	4.10	64.30	15.60	0.00	15.60	23.10	64.30	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 1:00 PM	274.00	2.70	10.50	23.20	12.70	16.20	23.20	76.30	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 1:15 PM	157.00	7.20	24.20	9.70	0.00	16.20	24.20	87.80	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 1:30 PM	240.00	4.90	94.70	17.90	0.00	17.90	25.60	94.70	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 1:45 PM	198.00	3.60	101.10	19.50	0.00	19.50	26.70	101.10	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 2:00 PM	193.00	4.90	101.50	25.50	0.00	25.50	31.30	101.50	15.90	0.00	15.30	15.30	15.30	8.40	0.00	0.00
6/22/15 2:15 PM	189.00	9.00	114.90	28.20	0.00	28.20	34.80	114.90	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 2:30 PM	202.00	7.80	134.60	25.50	0.00	25.50	36.00	134.60	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 2:45 PM	197.00	10.00	132.10	24.30	0.00	24.30	35.70	132.10	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 3:00 PM	189.00	9.80	108.30	26.20	0.00	26.20	31.20	108.30	16.50	0.00	5.80	5.80	5.80	0.00	0.00	0.00
6/22/15 3:15 PM	190.00	10.30	80.70	27.00	0.00	27.00	25.50	80.70	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 3:30 PM	193.00	7.50	54.30	0.00	0.00	0.00	22.40	54.30	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 3:45 PM	195.00	8.80	35.20	30.50	0.00	30.50	20.40	35.20	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 4:00 PM	200.00	10.80	16.10	32.40	16.30	32.40	19.10	16.10	19.50	0.00	5.80	5.80	5.80	0.00	0.00	7.00
6/22/15 4:15 PM	186.00	9.80	5.80	33.50	27.70	33.50	17.00	5.80	20.30	0.00	15.80	15.80	15.80	0.00	0.00	6.80
6/22/15 4:30 PM	195.00	9.50	4.60	35.10	30.50	35.10	18.70	4.60	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 4:45 PM	189.00	9.10	4.70	36.20	31.50	36.20	20.00	4.70	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 5:00 PM	211.00	5.90	8.40	38.60	30.20	38.60	24.00	8.40	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 5:15 PM	205.00	8.50	12.40	40.30	27.90	40.30	26.40	12.40	24.20	0.00	6.20	6.20	6.20	0.00	0.00	0.00
6/22/15 5:30 PM	200.00	8.70	15.20	39.00	23.80	39.00	27.80	15.20	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 5:45 PM	210.00	8.40	24.20	37.40	13.20	37.40	30.50	24.20	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 6:00 PM	203.00	7.80	29.50	37.90	8.40	37.90	32.40	29.50	22.60	0.00	10.90	10.90	10.90	0.00	0.00	0.00
6/22/15 6:15 PM	220.00	7.10	43.50	39.10	0.00	39.10	35.20	43.50	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 6:30 PM	213.00	5.70	54.80	40.20	0.00	40.20	38.80	54.80	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 6:45 PM	216.00	7.20	63.10	44.20	0.00	44.20	39.80	63.10	26.70	0.00	13.30	13.30	13.30	0.00	0.00	0.00
6/22/15 7:00 PM	221.00	6.20	70.40	45.30	0.00	45.30	41.50	70.40	27.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 7:15 PM	228.00	6.80	74.70	45.70	0.00	45.70	43.10	74.70	27.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 7:30 PM	226.00	9.00	85.90	47.90	0.00	47.90	46.90	85.90	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 7:45 PM	226.00	7.70	88.00	51.20	0.00	51.20	47.70	88.00	28.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 8:00 PM	212.00	5.70	88.60	51.90	0.00	51.90	47.70	88.60	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 8:15 PM	213.00	6.00	91.60	52.00	0.00	52.00	48.00	91.60	29.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 8:30 PM	213.00	6.60	94.90	52.60	0.00	52.60	49.20	94.90	29.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 8:45 PM	202.00	7.70	104.60	55.00	0.00	55.00	52.00	104.60	30.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 9:00 PM	202.00	5.50	113.50	53.70	0.00	53.70	52.70	113.50	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 9:15 PM	194.00	7.10	117.00	53.50	0.00	53.50	53.40	117.00	30.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 9:30 PM	204.00	4.10	114.10	52.60	0.00	52.60	52.40	114.10	31.00	0.00	6.00	6.00	6.00	0.00	0.00	0.00
6/22/15 9:45 PM	206.00	6.70	111.80	55.40	0.00	55.40	51.90	111.80	31.70	0.00	4.90	4.90	4.90	0.00	0.00	0.00
6/22/15 10:00 PM	230.00	6.90	105.60	55.70	0.00	55.70	52.50	105.60	31.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 10:15 PM	252.00	8.70	108.70	56.60	0.00	56.60	55.00	108.70	31.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 10:30 PM	240.00	8.60	115.60	56.60	0.00	56.60	56.10	115.60	32.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 10:45 PM	252.00	8.20	126.90	57.30	0.00	57.30	58.00	126.90	32.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 11:00 PM	234.00	5.30	126.00	58.30	0.00	58.30	59.70	126.00	31.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 11:15 PM	225.00	4.50	168.00	55.50	0.00	55.50	57.80	168.00	30.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/15 11:30 PM	215.00	3.30	70.70	24.40	0.00	24.40	34.20	70.70	14.60	0.00	18.00	18.00	18.00	0.00	0.00	0.00
6/22/15 11:45 PM	207.00	4.70	-4.30	16.70	21.00	16.70	10.70	-4.30	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/15 12:00 AM	233.00	4.40	-7.30	7.10	14.40	7.10	5.80	-7.30	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/15 12:15 AM	240.00	4.00	-2.80	5.60	8.40	5.60	5.30	-2.80	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/15 12:30 AM	239.00	3.70														



**US Army Corps
of Engineers®**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
June 2015

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
6/24/15 10:00 AM	239.00	2.10	36.10	32.70	0.00	32.70	29.70	36.10	10.90	0.00	0.00	0.00	4.60	0.00	0.00	0.00
6/24/15 10:15 AM	232.00	1.60	33.40	31.50	0.00	31.50	28.00	33.40	10.90	0.00	0.00	0.00	8.20	0.00	0.00	0.00
6/24/15 10:30 AM	238.00	1.70	34.50	33.30	0.00	33.30	30.30	34.50	12.80	0.00	0.00	0.00	7.20	0.00	0.00	0.00
6/24/15 10:45 AM	215.00	1.60	34.30	33.90	0.00	33.90	31.00	34.30	13.20	0.00	8.30	8.30	8.30	0.00	0.00	0.00
6/24/15 11:00 AM	196.00	2.40	31.60	32.50	0.90	32.50	31.20	31.60	14.10	0.00	6.60	6.60	6.60	0.00	0.00	0.00
6/24/15 11:15 AM	221.00	1.90	29.50	35.10	5.60	35.10	31.60	29.50	13.20	0.00	7.00	7.00	7.00	0.00	0.00	0.00
6/24/15 11:30 AM	250.00	3.00	29.70	38.00	8.30	38.00	30.10	29.70	13.20	0.00	0.00	0.00	7.20	0.00	0.00	0.00
6/24/15 11:45 AM	240.00	2.80	28.90	38.10	9.20	38.10	30.10	28.90	13.40	0.00	0.00	0.00	7.60	0.00	0.00	0.00
6/24/15 12:00 PM	209.00	2.80	27.80	35.10	7.30	35.10	27.30	27.80	13.10	0.00	3.40	3.40	3.40	0.00	0.00	0.00
6/24/15 12:15 PM	264.00	3.30	26.40	37.30	10.90	37.30	27.90	26.40	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 12:30 PM	272.00	4.50	11.80	22.60	10.80	33.30	22.60	21.60	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 12:45 PM	252.00	4.10	21.20	28.30	7.10	28.30	22.70	21.20	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 1:00 PM	259.00	3.80	18.90	27.40	8.50	27.40	23.50	18.90	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 1:15 PM	236.00	4.60	20.00	31.10	11.10	31.10	25.20	20.00	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 1:30 PM	232.00	3.30	15.50	18.50	3.00	18.50	18.40	15.50	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 1:45 PM	227.00	2.70	14.30	20.90	6.60	20.90	14.30	14.30	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 2:00 PM	223.00	4.00	15.80	18.90	3.10	18.90	17.00	15.80	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 2:15 PM	262.00	4.70	14.90	20.60	5.70	20.60	14.40	14.90	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 2:30 PM	240.00	3.60	14.30	16.70	2.40	16.70	15.40	14.30	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 2:45 PM	240.00	4.50	14.10	18.30	4.20	18.30	13.40	14.10	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 3:00 PM	202.00	3.40	12.50	17.10	4.60	17.10	8.80	12.50	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 3:15 PM	185.00	2.20	11.30	14.90	3.60	14.90	9.10	11.30	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 3:30 PM	245.00	1.40	11.60	17.50	5.90	17.50	11.10	11.60	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 3:45 PM	202.00	3.30	12.40	20.70	8.30	20.70	12.40	12.40	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 4:00 PM	247.00	2.50	13.80	24.80	11.00	24.80	19.40	13.80	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 4:15 PM	356.00	1.50	11.00	15.20	4.20	23.50	15.20	13.50	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 4:30 PM	318.00	1.20	10.40	12.80	2.40	21.70	12.80	13.00	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 4:45 PM	313.00	1.10	9.90	10.40	0.50	17.30	10.40	12.10	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 5:00 PM	265.00	1.90	11.20	14.60	3.40	14.60	10.20	11.20	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 5:15 PM	255.00	2.20	12.10	16.40	4.30	16.40	9.70	12.10	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 5:30 PM	262.00	3.70	12.50	13.50	1.00	13.50	11.70	12.50	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 5:45 PM	246.00	3.30	11.80	16.40	4.60	16.40	12.10	11.80	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 6:00 PM	201.00	2.90	12.90	16.90	4.00	16.90	12.10	12.90	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 6:15 PM	221.00	2.60	13.80	17.90	4.10	17.90	13.30	13.80	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 6:30 PM	241.00	3.00	13.90	17.60	3.70	17.60	12.40	13.90	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 6:45 PM	219.00	1.70	13.90	12.90	0.00	12.90	13.00	13.90	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 7:00 PM	201.00	2.00	14.10	13.50	0.00	13.50	13.50	14.10	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 7:15 PM	178.00	1.90	11.70	8.00	0.00	13.30	11.70	14.30	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 7:30 PM	299.00	1.00	8.70	14.30	5.60	15.50	14.30	16.50	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 7:45 PM	269.00	1.20	16.90	14.30	0.00	14.30	15.50	16.90	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 8:00 PM	190.00	1.80	18.00	14.70	0.00	14.70	13.00	18.00	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 8:15 PM	179.00	2.50	13.30	5.20	0.00	13.80	13.30	18.40	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 8:30 PM	195.00	3.10	18.70	0.00	0.00	0.00	14.60	18.70	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 8:45 PM	193.00	2.70	18.70	16.50	0.00	16.50	20.10	18.70	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 9:00 PM	177.00	2.20	19.60	6.20	0.00	17.50	19.60	23.10	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 9:15 PM	221.00	2.20	22.30	17.80	0.00	17.80	17.60	22.30	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 9:30 PM	207.00	2.30	21.30	0.00	0.00	0.00	17.50	21.30	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 9:45 PM	231.00	2.00	22.80	15.30	0.00	15.30	16.00	22.80	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 10:00 PM	197.00	1.90	21.90	13.60	0.00	13.60	15.60	21.90	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 10:15 PM	199.00	1.00	22.10	13.50	0.00	13.50	19.00	22.10	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 10:30 PM	201.00	1.40	23.90	14.80	0.00	14.80	17.70	23.90	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 10:45 PM	288.00	0.70	6.70	20.00	13.30	15.80	20.00	25.10	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 11:00 PM	317.00	0.20	7.30	21.20	13.90	17.80	21.20	25.50	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 11:15 PM	198.00	0.70	27.60	22.00	0.00	22.00	21.60	27.60	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 11:30 PM	170.00	0.90	25.40	8.20	0.00	19.50	25.40	29.20	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/15 11:45 PM	182.00	1.60	28.20	17.00	0.00	17.00	27.60	28.20	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 12:00 AM	185.00	1.50	28.10	22.00	0.00	22.00	25.60	28.10	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 12:15 AM	184.00	1.80	31.90	19.50	0.00	19.50	30.60	31.90	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 12:30 AM	163.00	2.40	28.10	9.60	0.00	15.70	28.10	31.50	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 12:45 AM	203.00	1.40	30.50	18.00	0.00	18.00	28.60	30.50	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 1:00 AM	199.00	1.60	35.70	23.80	0.00	23.80	30.40	35.70	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 1:15 AM	171.00	1.50	29.50	10.70	0.00	22.20	29.50	34.00	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 1:30 AM	180.00	2.20	33.40	20.60	0.00	20.60	29.50	33.40	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 1:45 AM	171.00	3.00	28.30	8.50	0.00	18.00	28.30	34.30	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 2:00 AM	164.00	2.10	28.50	7.70	0.00	17.60	28.50	34.30	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 2:15 AM	163.00	2.50	25.70	6.60	0.00	14.80	25.70	31.30	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 2:30 AM	195.00	2.40	31.20	11.10	0.00	11.10	24.20	31.20	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 2:45 AM	191.00	2.50	29.70	11.00	0.00	11.00	24.30	29.70	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 3:00 AM	205.00	2.70	29.70	12.10	0.00	12.10	24.60	29.70	6.40	0.00</						



US Army Corps
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Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
June 2015

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
6/25/15 11:15 AM	232.00	2.00	10.80	8.40	0.00	8.40	9.20	10.80	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 11:30 AM	270.00	2.90	4.50	8.00	3.50	7.50	8.00	7.50	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 11:45 AM	318.00	2.90	4.60	7.00	2.40	7.40	7.00	4.70	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 12:00 PM	287.00	3.60	4.80	5.90	1.10	8.70	5.90	3.20	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 12:15 PM	279.00	2.50	4.60	4.90	0.30	7.10	4.90	1.80	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 12:30 PM	318.00	2.30	4.80	5.20	0.40	8.20	5.20	2.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 12:45 PM	342.00	2.60	5.10	5.40	0.30	9.80	5.40	2.00	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 1:00 PM	352.00	4.10	5.30	5.40	0.10	8.30	5.40	1.80	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 1:15 PM	349.00	3.20	5.30	6.10	0.80	8.20	6.10	1.70	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 1:30 PM	359.00	2.60	6.00	6.20	0.20	8.50	6.20	1.50	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 1:45 PM	356.00	1.80	6.50	6.90	0.40	9.10	6.90	1.60	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 2:00 PM	14.00	3.10	0.00	2.00	0.00	0.00	7.70	2.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 2:15 PM	50.00	3.80	9.40	1.70	0.00	9.40	9.00	1.70	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 2:30 PM	340.00	2.60	7.70	9.90	2.20	9.00	9.90	1.80	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 2:45 PM	33.00	4.60	10.80	2.00	0.00	10.80	11.10	2.00	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 3:00 PM	35.00	3.90	10.80	2.10	0.00	10.80	12.50	2.10	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 3:15 PM	42.00	4.60	17.40	4.60	0.00	17.40	19.20	4.60	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 3:30 PM	30.00	4.40	21.90	8.90	0.00	21.90	18.20	8.90	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 3:45 PM	31.00	3.90	23.90	18.00	0.00	23.90	26.40	18.00	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 4:00 PM	31.00	5.00	28.50	26.40	0.00	28.50	30.90	26.40	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 4:15 PM	36.00	5.50	34.50	50.30	15.80	34.50	48.10	50.30	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 4:30 PM	26.00	5.00	73.50	64.50	0.00	73.50	48.80	64.50	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 4:45 PM	40.00	4.40	44.20	74.30	30.10	44.20	59.70	74.30	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 5:00 PM	47.00	3.80	28.60	57.10	28.50	28.60	53.90	57.10	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 5:15 PM	35.00	4.20	25.30	50.90	25.60	25.30	34.70	50.90	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 5:30 PM	50.00	4.80	40.60	41.60	1.00	40.60	27.90	41.60	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 5:45 PM	38.00	5.10	26.40	50.20	23.80	26.40	30.20	50.20	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 6:00 PM	38.00	3.80	31.30	55.50	24.20	31.30	37.20	55.50	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 6:15 PM	348.00	5.50	19.10	35.40	16.30	30.70	35.40	55.70	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 6:30 PM	347.00	4.60	16.40	32.80	16.40	29.70	32.80	38.40	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 6:45 PM	4.00	4.10	30.20	65.20	35.00	30.20	36.50	65.20	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 7:00 PM	352.00	6.40	12.10	37.70	25.60	28.90	37.70	74.00	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 7:15 PM	355.00	5.90	10.70	40.90	30.20	18.70	40.90	45.20	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 7:30 PM	29.00	6.00	23.00	41.90	18.90	23.00	44.30	41.90	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 7:45 PM	39.00	4.80	28.20	39.70	11.50	28.20	48.60	39.70	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 8:00 PM	32.00	4.30	18.60	31.20	12.60	18.60	32.60	31.20	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 8:15 PM	35.00	3.70	13.90	23.70	9.80	13.90	27.90	23.70	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 8:30 PM	8.00	4.00	37.00	25.50	0.00	37.00	27.30	25.50	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 8:45 PM	16.00	6.60	25.60	71.10	45.50	25.60	32.00	71.10	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 9:00 PM	27.00	4.20	0.00	76.80	0.00	0.00	35.50	76.80	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 9:15 PM	357.00	4.50	12.60	40.90	28.30	19.00	40.90	86.30	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 9:30 PM	35.00	3.70	19.00	86.80	67.80	19.00	33.00	86.80	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 9:45 PM	29.00	5.70	28.10	41.20	13.10	28.10	39.40	41.20	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 10:00 PM	31.00	5.40	12.90	48.40	35.50	12.90	27.30	48.40	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 10:15 PM	0.00	0.00	0.00	0.00	0.00	39.80	28.20	24.30	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 10:30 PM	340.00	3.10	6.00	28.70	22.70	15.40	28.70	37.50	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 10:45 PM	347.00	3.70	6.30	32.00	25.70	16.00	32.00	64.70	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 11:00 PM	5.00	5.10	11.60	75.70	64.10	11.60	26.40	75.70	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 11:15 PM	358.00	4.80	7.50	30.60	23.10	11.40	30.60	68.80	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 11:30 PM	13.00	4.90	11.20	30.30	19.10	11.20	38.30	30.30	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/15 11:45 PM	348.00	5.00	6.20	34.70	28.50	10.20	34.70	24.70	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/26/15 12:00 AM	335.00	3.00	6.20	31.10	24.90	10.40	31.10	23.20	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/26/15 12:15 AM	346.00	4.00	6.30	27.50	21.20	10.10	27.50	20.20	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/26/15 12:30 AM	354.00	5.80	5.40	25.50	20.10	13.30	25.50	15.10	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/26/15 12:45 AM	347.00	3.30	5.60	21.40	15.80	10.10	21.40	13.00	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/26/15 1:00 AM	352.00	3.20	5.90	20.40	14.50	0.00	20.40	12.40	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/26/15 1:15 AM	20.00	4.80	9.20	11.40	2.20	9.20	19.80	11.40	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/26/15 1:30 AM	25.00	3.80	0.00	11.40	0.00	0.00	21.30	11.40	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/26/15 1:45 AM	26.00	4.10	11.10	12.10	1.00	11.10	21.70	12.10	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/26/15 2:00 AM	19.00	4.10	13.50	11.30	0.00	13.50	21.20	11.30	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/26/15 2:15 AM	352.00	4.90	7.40	19.50	12.10	0.00	19.50	12.10	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/26/15 2:30 AM	26.00	3.70	24.50	11.90	0.00	24.50	20.00	11.90	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/26/15 2:45 AM	30.00	3.20	28.90	15.10	0.00	28.90	21.30	15.10	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/26/15 3:00 AM	356.00	3.40	7.40	22.30	14.90	26.00	22.30	12.80	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/26/15 3:15 AM	40.00	4.00	25.10	12.00	0.00	25.10	20.90	12.00	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/26/15 3:30 AM	351.00	4.90	8.80	23.50	14.70	20.60	23.50	14.30	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/26/15 3:45 AM	351.00	4.40	8.70	24.80	16.10	22.90	24.80	16.50	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/26/15 4:00 AM	321.00	3.80	8.20	25.10	16.90	24.40	25.10	15.70	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/26/15 4:15 AM	348.00	3.90	10.50	28.50	18.00	25.20	28.50	16.90	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/26/15 4:30 AM	347.00	5.30	8.													



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June 2015

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
6/27/15 1:45 PM	351.00	6.60	4.00	5.80	1.80	7.80	5.80	5.40	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 2:00 PM	343.00	5.30	4.00	5.50	1.50	7.30	5.50	5.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 2:15 PM	348.00	6.20	4.00	3.70	0.00	8.10	3.70	4.90	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 2:30 PM	357.00	6.90	4.00	4.80	0.80	7.30	4.80	4.50	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 2:45 PM	357.00	8.10	4.70	4.20	0.00	7.80	4.20	3.70	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 3:00 PM	349.00	5.50	4.60	3.20	0.00	7.50	3.20	3.70	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 3:15 PM	349.00	7.40	5.20	2.70	0.00	7.00	2.70	3.40	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 3:30 PM	1.00	7.00	8.10	3.20	0.00	8.10	3.00	3.20	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 3:45 PM	357.00	8.10	6.10	4.20	0.00	8.80	4.20	4.20	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 4:00 PM	354.00	8.60	5.10	2.50	0.00	6.80	2.50	3.40	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 4:15 PM	352.00	7.70	4.40	1.90	0.00	4.90	1.90	2.70	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 4:30 PM	357.00	9.30	4.80	1.70	0.00	5.50	1.70	1.90	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 4:45 PM	353.00	7.30	6.10	2.00	0.00	8.10	2.00	2.30	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 5:00 PM	352.00	8.00	5.60	1.70	0.00	7.70	1.70	1.70	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 5:15 PM	349.00	6.80	4.50	1.30	0.00	7.60	1.30	1.30	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 5:30 PM	0.00	8.30	7.20	1.10	0.00	7.20	1.20	1.10	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 5:45 PM	356.00	8.00	5.90	1.30	0.00	9.00	1.30	1.10	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 6:00 PM	352.00	6.50	5.60	1.50	0.00	8.40	1.50	1.10	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 6:15 PM	354.00	7.10	5.80	1.60	0.00	8.60	1.60	1.30	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 6:30 PM	352.00	7.20	5.20	1.60	0.00	6.70	1.60	1.40	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 6:45 PM	1.00	6.60	6.60	1.20	0.00	6.60	1.30	1.20	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 7:00 PM	350.00	6.90	3.80	1.10	0.00	5.60	1.10	1.40	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 7:15 PM	351.00	7.00	3.70	1.20	0.00	5.70	1.20	1.40	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 7:30 PM	357.00	6.50	4.40	1.50	0.00	6.50	1.50	1.80	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 7:45 PM	348.00	5.10	4.40	1.80	0.00	6.90	1.80	2.00	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 8:00 PM	348.00	4.60	5.40	2.50	0.00	7.80	2.50	2.40	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 8:15 PM	343.00	4.50	5.00	3.00	0.00	7.80	3.00	3.60	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 8:30 PM	329.00	3.50	4.90	3.10	0.00	7.70	3.10	3.50	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 8:45 PM	336.00	3.50	4.40	3.40	0.00	7.40	3.40	4.40	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 9:00 PM	357.00	4.90	4.50	3.30	0.00	7.50	3.30	5.10	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 9:15 PM	346.00	4.00	4.40	3.40	0.00	6.60	3.40	5.40	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 9:30 PM	343.00	3.00	4.60	4.00	0.00	6.00	4.00	6.20	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 9:45 PM	350.00	4.00	4.90	4.70	0.00	0.00	4.70	7.10	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 10:00 PM	352.00	4.10	4.80	4.40	0.00	8.90	4.40	7.50	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 10:15 PM	342.00	3.20	4.60	5.10	0.50	8.00	5.10	8.30	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 10:30 PM	349.00	4.30	4.50	5.10	0.60	7.20	5.10	8.40	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 10:45 PM	355.00	2.80	4.30	5.10	0.80	6.40	5.10	8.20	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 11:00 PM	0.00	2.50	6.80	8.50	1.70	6.80	5.50	8.50	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 11:15 PM	349.00	3.60	5.40	6.20	0.80	6.50	6.20	8.30	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 11:30 PM	319.00	3.10	5.30	5.20	0.00	7.50	5.20	8.00	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/27/15 11:45 PM	319.00	2.80	5.30	5.80	0.50	0.00	5.80	7.70	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 12:00 AM	296.00	1.30	5.40	5.10	0.00	6.80	5.10	7.50	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 12:15 AM	267.00	0.90	8.20	6.80	0.00	6.80	5.80	8.20	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 12:30 AM	270.00	2.10	6.10	6.50	0.40	7.50	6.50	8.90	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 12:45 AM	268.00	1.80	8.90	6.90	0.00	6.90	5.60	8.90	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 1:00 AM	237.00	1.50	9.10	7.50	0.00	7.50	5.30	9.10	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 1:15 AM	216.00	1.20	9.50	7.80	0.00	7.80	5.30	9.50	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 1:30 AM	232.00	1.70	8.50	8.60	0.10	8.60	6.50	8.50	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 1:45 AM	219.00	1.30	8.40	9.60	1.20	9.60	4.40	8.40	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 2:00 AM	215.00	1.50	8.60	11.70	3.10	11.70	5.70	8.60	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 2:15 AM	238.00	2.90	11.40	16.30	4.90	16.30	8.30	11.40	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 2:30 AM	220.00	2.20	13.70	16.70	3.00	16.70	10.50	13.70	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 2:45 AM	217.00	1.10	16.70	16.70	0.00	16.70	13.10	16.70	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 3:00 AM	218.00	1.60	22.50	19.20	0.00	19.20	20.70	22.50	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 3:15 AM	194.00	0.80	21.60	20.80	0.00	20.80	20.50	21.60	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 3:30 AM	178.00	0.80	21.20	15.20	0.00	23.60	21.20	25.70	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 3:45 AM	134.00	1.00	22.80	15.90	0.00	24.50	22.80	27.60	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 4:00 AM	168.00	0.50	25.50	17.30	0.00	27.70	25.50	31.40	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 4:15 AM	222.00	1.20	34.20	27.70	0.00	27.70	27.40	34.20	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 4:30 AM	230.00	1.20	35.30	29.30	0.00	29.30	28.40	35.30	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 4:45 AM	183.00	1.00	35.80	31.10	0.00	31.10	29.40	35.80	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 5:00 AM	175.00	1.30	31.10	17.90	0.00	32.30	31.10	39.60	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 5:15 AM	208.00	1.20	40.00	31.30	0.00	31.30	30.50	40.00	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 5:30 AM	198.00	1.20	41.00	31.60	0.00	31.60	30.40	41.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 5:45 AM	161.00	1.60	29.10	15.50	0.00	31.30	29.10	40.00	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 6:00 AM	178.00	1.30	30.40	16.00	0.00	29.70	30.40	42.70	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 6:15 AM	192.00	1.30	43.20	28.70	0.00	28.70	29.00	43.20	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 6:30 AM	183.00	1.50	43.20	31.20	0.00	31.20	29.10	43.20	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 6:45 AM	182.00	1.50	44.90	31.30	0.00	31.30	31.10	44.90	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 7:00 AM	201.00	1.10	44.40	33.00	0.00	33.00	33.50	44.40	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/15 7:15 AM	156.00															



US Army Corps
of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
June 2015

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)								Naphthalene (µg/m³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
6/28/15 3:00 PM	264.00	2.90	12.80	11.00	0.00	11.00	8.00	12.80	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 3:15 PM	233.00	3.50	12.70	10.40	0.00	10.40	7.40	12.70	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 3:30 PM	313.00	0.90	6.20	8.10	1.90	8.80	8.10	12.40	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 3:45 PM	122.00	3.20	8.60	6.60	0.00	0.00	8.60	12.10	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 4:00 PM	99.00	2.90	7.00	6.10	0.00	8.80	7.00	11.50	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 4:15 PM	129.00	3.70	6.90	6.40	0.00	9.60	6.90	10.60	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 4:30 PM	185.00	5.40	11.80	10.30	0.00	10.30	7.60	11.80	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 4:45 PM	195.00	6.50	11.40	10.20	0.00	10.20	8.10	11.40	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 5:00 PM	212.00	4.60	18.10	11.80	0.00	11.80	8.80	18.10	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 5:15 PM	198.00	3.90	13.30	11.40	0.00	11.40	8.90	13.30	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 5:30 PM	205.00	4.00	13.20	19.20	6.00	19.20	12.30	13.20	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 5:45 PM	205.00	3.20	14.60	10.90	0.00	10.90	7.60	14.60	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 6:00 PM	183.00	3.40	17.50	11.70	0.00	11.70	9.40	17.50	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 6:15 PM	190.00	1.90	17.20	10.50	0.00	10.50	8.00	17.20	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 6:30 PM	203.00	2.30	19.30	11.40	0.00	11.40	9.80	19.30	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 6:45 PM	185.00	1.80	21.10	10.30	0.00	10.30	10.30	21.10	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 7:00 PM	181.00	1.80	21.10	10.90	0.00	10.90	18.20	21.10	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 7:15 PM	182.00	2.00	19.70	9.40	0.00	9.40	10.60	19.70	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 7:30 PM	204.00	1.70	19.70	8.30	0.00	8.30	11.70	19.70	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 7:45 PM	198.00	2.40	21.00	9.00	0.00	9.00	11.20	21.00	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 8:00 PM	175.00	2.80	12.40	5.50	0.00	10.60	12.40	21.30	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 8:15 PM	171.00	2.60	13.60	5.20	0.00	11.40	13.60	20.80	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 8:30 PM	182.00	2.20	20.10	11.40	0.00	11.40	12.20	20.10	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 8:45 PM	160.00	1.80	13.00	4.40	0.00	0.00	13.00	19.70	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 9:00 PM	126.00	2.20	11.80	4.40	0.00	9.70	11.80	19.70	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 9:15 PM	127.00	2.20	11.90	4.40	0.00	10.10	11.90	20.10	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 9:30 PM	121.00	2.40	11.70	5.00	0.00	11.00	11.70	20.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 9:45 PM	155.00	3.30	11.10	5.00	0.00	0.00	11.10	19.60	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 10:00 PM	146.00	2.70	12.90	5.30	0.00	11.90	12.90	19.90	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 10:15 PM	169.00	2.70	18.00	6.50	0.00	17.00	18.00	24.50	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 10:30 PM	199.00	1.50	24.00	15.50	0.00	15.50	17.20	24.00	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 10:45 PM	193.00	2.10	26.20	17.10	0.00	17.10	18.60	26.20	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 11:00 PM	195.00	2.20	29.80	14.90	0.00	14.90	17.30	29.80	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 11:15 PM	201.00	2.20	27.70	13.90	0.00	13.90	30.10	27.70	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 11:30 PM	205.00	4.20	29.00	13.80	0.00	13.80	19.90	29.00	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/15 11:45 PM	211.00	2.50	30.80	14.20	0.00	14.20	21.80	30.80	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 12:00 AM	176.00	1.90	20.80	7.00	0.00	12.10	20.80	30.90	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 12:15 AM	194.00	3.10	32.60	12.20	0.00	12.20	21.80	32.60	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 12:30 AM	184.00	1.90	31.90	11.50	0.00	11.50	23.20	31.90	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 12:45 AM	170.00	2.00	22.30	6.10	0.00	10.50	22.30	31.20	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 1:00 AM	173.00	2.70	23.40	6.30	0.00	11.50	23.40	33.50	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 1:15 AM	194.00	2.00	34.40	10.90	0.00	10.90	25.20	34.40	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 1:30 AM	171.00	2.20	31.10	6.70	0.00	11.90	31.10	36.30	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 1:45 AM	170.00	1.80	87.90	7.00	0.00	44.50	87.90	38.70	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 2:00 AM	138.00	2.20	31.00	10.10	0.00	11.20	31.00	52.00	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 2:15 AM	153.00	2.20	32.20	8.10	0.00	11.00	32.20	42.40	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 2:30 AM	158.00	2.30	33.00	7.90	0.00	11.70	33.00	42.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 2:45 AM	146.00	2.40	35.10	7.80	0.00	10.60	35.10	42.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 3:00 AM	144.00	2.20	36.90	8.00	0.00	10.60	36.90	42.60	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 3:15 AM	148.00	2.70	42.00	8.10	0.00	12.00	42.00	43.80	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 3:30 AM	158.00	1.50	46.60	8.80	0.00	12.80	46.60	56.90	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 3:45 AM	143.00	2.00	50.40	8.70	0.00	12.40	50.40	54.30	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 4:00 AM	112.00	1.70	57.00	9.80	0.00	13.20	57.00	54.70	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 4:15 AM	126.00	1.40	61.10	10.20	0.00	14.70	61.10	60.60	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 4:30 AM	130.00	1.30	55.60	9.60	0.00	14.60	55.60	56.80	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 4:45 AM	156.00	1.90	54.40	10.90	0.00	14.20	54.40	53.70	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 5:00 AM	149.00	2.50	49.20	9.80	0.00	14.10	49.20	52.80	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 5:15 AM	134.00	2.10	47.20	9.70	0.00	13.30	47.20	48.70	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 5:30 AM	106.00	2.60	40.80	9.70	0.00	13.40	40.80	50.80	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 5:45 AM	136.00	1.20	41.80	9.70	0.00	12.60	41.80	50.20	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 6:00 AM	144.00	2.00	42.40	10.90	0.00	13.30	42.40	49.80	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 6:15 AM	148.00	3.80	41.50	10.00	0.00	13.60	41.50	53.90	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 6:30 AM	147.00	2.20	40.10	10.10	0.00	14.00	40.10	49.90	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 6:45 AM	153.00	1.70	41.50	9.60	0.00	13.20	41.50	52.30	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 7:00 AM	178.00	2.00	41.30	10.40	0.00	13.90	41.30	51.10	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 7:15 AM	166.00	1.80	43.80	10.20	0.00	13.90	43.80	50.00	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 7:30 AM	150.00	2.20	44.00	10.40	0.00	15.80	44.00	48.50	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 7:45 AM	150.00	1.50	43.30	10.10	0.00	15.80	43.30	53.20	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 8:00 AM	162.00	1.40	49.90	11.00	0.00	16.10	49.90	48.60	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/15 8:15 AM	132.00	1																



**US Army Corps
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Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
June 2015

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
6/29/15 4:15 PM	113.00	1.50	11.50	9.60	0.00	15.40	11.50	11.80	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 4:30 PM	118.00	1.10	10.40	8.80	0.00	9.00	10.40	9.10	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 4:45 PM	257.00	0.50	8.40	7.80	0.00	7.80	8.90	8.40	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 5:00 PM	154.00	2.20	9.60	5.90	0.00	8.90	9.60	9.40	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 5:15 PM	171.00	2.80	9.70	6.50	0.00	8.20	9.70	8.50	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 5:30 PM	221.00	2.60	8.90	8.50	0.00	8.50	9.00	8.90	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 5:45 PM	227.00	2.10	8.90	8.40	0.00	8.40	8.80	8.90	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 6:00 PM	205.00	1.80	9.30	9.20	0.00	9.20	9.30	9.30	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 6:15 PM	233.00	2.10	12.50	7.90	0.00	7.90	11.60	12.50	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 6:30 PM	188.00	1.00	12.40	9.90	0.00	9.90	12.00	12.40	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 6:45 PM	106.00	2.70	11.90	6.40	0.00	8.70	11.90	12.60	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 7:00 PM	103.00	1.10	12.40	7.60	0.00	10.30	12.40	16.20	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 7:15 PM	111.00	1.60	13.90	6.60	0.00	10.20	13.90	15.20	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 7:30 PM	121.00	2.00	13.90	7.00	0.00	11.40	13.90	15.10	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 7:45 PM	70.00	1.70	10.80	15.20	4.40	10.80	13.30	15.20	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 8:00 PM	114.00	1.60	14.20	7.10	0.00	0.00	14.20	18.40	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 8:15 PM	122.00	1.40	15.40	8.20	0.00	13.30	15.40	23.50	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 8:30 PM	104.00	1.50	15.70	7.60	0.00	11.80	15.70	22.70	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 8:45 PM	112.00	1.20	17.70	8.40	0.00	18.40	17.70	21.30	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 9:00 PM	141.00	1.40	16.80	10.30	0.00	20.00	16.80	31.70	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 9:15 PM	174.00	0.70	18.00	13.20	0.00	27.00	18.00	26.70	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 9:30 PM	190.00	1.10	24.30	17.60	0.00	17.60	15.60	24.30	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 9:45 PM	188.00	1.30	32.50	17.70	0.00	17.70	20.00	32.50	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 10:00 PM	211.00	1.20	27.90	41.30	13.40	41.30	15.60	27.90	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 10:15 PM	192.00	1.20	27.00	18.30	0.00	18.30	18.10	27.00	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 10:30 PM	217.00	1.20	31.70	27.70	0.00	27.70	19.40	31.70	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 10:45 PM	186.00	1.90	41.10	26.60	0.00	26.60	24.30	41.10	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 11:00 PM	202.00	1.90	43.90	29.60	0.00	29.60	26.90	43.90	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 11:15 PM	200.00	1.90	54.90	28.90	0.00	28.90	27.80	54.90	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 11:30 PM	193.00	2.20	52.60	24.10	0.00	24.10	30.20	52.60	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/15 11:45 PM	197.00	2.10	58.50	25.30	0.00	25.30	30.10	58.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 12:00 AM	199.00	2.20	59.80	27.20	0.00	27.20	30.90	59.80	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 12:15 AM	207.00	2.20	63.50	26.80	0.00	26.80	32.80	63.50	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 12:30 AM	199.00	2.60	64.20	26.50	0.00	26.50	31.20	64.20	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 12:45 AM	198.00	2.50	57.30	28.30	0.00	28.30	30.30	57.30	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 1:00 AM	188.00	2.80	55.90	26.20	0.00	26.20	29.60	55.90	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 1:15 AM	193.00	1.70	54.10	24.10	0.00	24.10	30.30	54.10	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 1:30 AM	183.00	2.30	51.00	24.30	0.00	24.30	30.20	51.00	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 1:45 AM	161.00	1.50	29.90	13.50	0.00	24.20	29.90	50.10	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 2:00 AM	190.00	1.90	49.00	25.80	0.00	25.80	31.20	49.00	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 2:15 AM	219.00	1.70	44.80	25.20	0.00	25.20	29.30	44.80	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 2:30 AM	196.00	1.90	43.10	0.00	0.00	0.00	27.00	43.10	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 2:45 AM	212.00	2.00	39.10	0.00	0.00	0.00	25.70	39.10	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 3:00 AM	185.00	1.50	36.30	20.00	0.00	20.00	23.90	36.30	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 3:15 AM	184.00	1.30	32.80	16.40	0.00	16.40	22.70	32.80	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 3:30 AM	226.00	0.90	29.60	14.90	0.00	14.90	22.90	29.60	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 3:45 AM	301.00	1.10	8.80	20.00	11.20	14.70	20.00	26.90	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 4:00 AM	308.00	0.20	8.30	19.20	10.90	13.50	19.20	23.90	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 4:15 AM	182.00	1.50	23.80	14.80	0.00	14.80	18.50	23.80	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 4:30 AM	210.00	2.10	24.20	0.00	0.00	0.00	18.00	24.20	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 4:45 AM	228.00	1.50	24.70	16.80	0.00	16.80	19.90	24.70	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 5:00 AM	250.00	2.20	28.50	22.00	0.00	22.00	25.40	28.50	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 5:15 AM	262.00	3.10	29.10	22.90	0.00	22.90	24.40	29.10	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 5:30 AM	254.00	2.00	30.30	21.50	0.00	21.50	23.60	30.30	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 5:45 AM	249.00	0.90	31.80	20.40	0.00	20.40	23.30	31.80	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 6:00 AM	270.00	2.60	11.40	24.30	12.90	20.60	24.30	32.80	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 6:15 AM	273.00	3.00	11.20	23.70	12.50	19.20	23.70	35.30	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 6:30 AM	268.00	2.70	35.10	21.20	0.00	21.20	23.80	35.10	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 6:45 AM	291.00	2.70	12.00	24.40	12.40	21.20	24.40	34.70	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 7:00 AM	288.00	2.60	12.20	23.10	10.90	22.20	23.10	31.70	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 7:15 AM	306.00	3.30	13.90	23.00	9.10	23.70	23.00	26.20	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 7:30 AM	298.00	2.60	14.20	21.50	7.30	24.10	21.50	19.20	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 7:45 AM	281.00	2.60	13.70	19.40	5.70	23.90	19.40	16.80	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 8:00 AM	271.00	3.10	12.60	18.30	5.70	22.80	18.30	14.50	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 8:15 AM	314.00	2.30	12.50	17.70	5.20	22.80	17.70	12.70	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 8:30 AM	272.00	3.40	14.10	17.20	3.10	27.10	17.20	12.10	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 8:45 AM	285.00	2.00	14.10	17.80	3.70	27.90	17.80	11.70	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 9:00 AM	251.00	2.30	9.60	26.70	17.10	26.70	15.60	9.60	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 9:15 AM	298.00	2.80	14.80	13.40	0.00	24.60	13.40	8.20	14.80	0.00	0.00	0.00	0.00	0		



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
6/30/15 5:30 PM	22.00	5.80	29.80	27.00	0.00	29.80	21.40	27.00	25.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 5:45 PM	23.00	7.80	24.20	22.10	0.00	24.20	22.00	22.10	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 6:00 PM	9.00	7.50	25.20	26.60	1.40	25.20	21.50	26.60	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 6:15 PM	25.00	6.60	33.40	39.80	6.40	33.40	25.50	39.80	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 6:30 PM	8.00	4.90	34.10	47.30	13.20	34.10	28.80	47.30	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 6:45 PM	21.00	5.70	15.80	39.80	24.00	15.80	18.60	39.80	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 7:00 PM	29.00	5.00	8.20	30.10	21.90	8.20	14.90	30.10	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 7:15 PM	20.00	5.30	9.00	25.60	16.60	9.00	12.30	25.60	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 7:30 PM	34.00	4.10	6.20	23.10	16.90	6.20	12.00	23.10	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 7:45 PM	41.00	4.50	12.00	28.80	16.80	12.00	13.80	28.80	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 8:00 PM	43.00	5.00	9.40	26.70	17.30	9.40	11.90	26.70	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 8:15 PM	41.00	5.20	7.00	29.80	22.80	7.00	14.50	29.80	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 8:30 PM	24.00	6.00	6.50	17.60	11.10	6.50	12.40	17.60	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 8:45 PM	28.00	5.40	10.00	16.60	6.60	10.00	14.90	16.60	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 9:00 PM	39.00	5.70	3.40	53.80	50.40	3.40	10.40	53.80	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 9:15 PM	33.00	4.70	0.90	28.20	27.30	0.90	8.40	28.20	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 9:30 PM	35.00	4.40	3.40	19.60	16.20	3.40	8.30	19.60	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 9:45 PM	43.00	3.40	4.20	20.10	15.90	4.20	8.60	20.10	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 10:00 PM	42.00	4.20	1.70	18.80	17.10	1.70	8.10	18.80	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 10:15 PM	43.00	5.20	1.20	21.50	20.30	1.20	7.90	21.50	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 10:30 PM	33.00	4.60	1.00	13.70	12.70	1.00	7.20	13.70	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 10:45 PM	34.00	3.70	2.10	14.20	12.10	2.10	9.40	14.20	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 11:00 PM	54.00	4.80	1.90	13.30	11.40	1.90	7.90	13.30	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 11:15 PM	38.00	4.50	1.00	11.50	10.50	1.00	7.00	11.50	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 11:30 PM	37.00	5.00	1.20	12.50	11.30	1.20	6.60	12.50	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/15 11:45 PM	31.00	4.10	9.90	16.30	6.40	9.90	6.50	16.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IHC CDF Dredge Project : Air Monitoring Alarm Response Log

Air Monitoring Station: M1 M2 M3 M4 Dock

Air Monitoring Instrument:

Cerex Unit (Naphthalene) Thermo Unit (Particles) PID Monitor

Date & Time of alarm: 6/2/2015 8:45

Email sent to site Technician? (Yes or **No**)

Technician responded to the alarm; Scott Peterson

1. Was dredging occurring at the time of the alarm? (**Yes** or No)

2. Alarm caused by:

- | | |
|-------------------------------------|-----------------------------|
| <input type="checkbox"/> | Loss of Power |
| <input type="checkbox"/> | Loss of Radio Communication |
| <input type="checkbox"/> | Out of Calibration |
| <input type="checkbox"/> | UV Alignment |
| <input type="checkbox"/> | Blockage in Air Tube |
| <input type="checkbox"/> | Air Quality |
| <input checked="" type="checkbox"/> | Other: |

3. Corrective Actions taken? (Yes or **No**)

4. Dredging suspended? (Yes or **No**)

5. Alarm logged in air monitoring action spreadsheet? (**Yes** or No)

Description of Action Taken:

A) No problems were found wrong with the air unit.

IHC CDF Dredge Project : Air Monitoring Alarm Response Log

Air Monitoring Station: M1 M2 M3 M4 Dock

Air Monitoring Instrument:

Cerex Unit (Naphthalene) Thermo Unit (Particles) PID Monitor

Date & Time of alarm: 6/10/2015 8:45PM Email sent to site Technician? (Yes or **No**)

Technician responded to the alarm; Scott Peterson

1. Was dredging occurring at the time of the alarm? (**Yes** or No)

2. Alarm caused by:

- | | |
|-------------------------------------|-----------------------------|
| <input type="checkbox"/> | Loss of Power |
| <input type="checkbox"/> | Loss of Radio Communication |
| <input type="checkbox"/> | Out of Calibration |
| <input type="checkbox"/> | UV Alignment |
| <input type="checkbox"/> | Blockage in Air Tube |
| <input type="checkbox"/> | Air Quality |
| <input checked="" type="checkbox"/> | Other: weather |

3. Corrective Actions taken? (Yes or **No**)

4. Dredging suspended? (Yes or **No**)

5. Alarm logged in air monitoring action spreadsheet? (**Yes** or No)

Description of Action Taken:

A) No problems were found wrong with the air unit. High winds and rain storms is believed to caused the alarms.

IHC CDF Dredge Project : Air Monitoring Alarm Response Log

Air Monitoring Station: M1 M2 M3 M4 Dock

Air Monitoring Instrument:

Cerex Unit (Naphthalene) Thermo Unit (Particles) PID Monitor

Date & Time of alarm: 6/12/2015 3:00 AM Email sent to site Technician? (Yes or **No**)

Technician responded to the alarm; Scott Peterson

1. Was dredging occurring at the time of the alarm? (**Yes** or No)

2. Alarm caused by:

- | | |
|-------------------------------------|-----------------------------|
| <input type="checkbox"/> | Loss of Power |
| <input type="checkbox"/> | Loss of Radio Communication |
| <input checked="" type="checkbox"/> | Out of Calibration |
| <input type="checkbox"/> | UV Alignment |
| <input type="checkbox"/> | Blockage in Air Tube |
| <input type="checkbox"/> | Air Quality |
| <input checked="" type="checkbox"/> | Other: weather |

3. Corrective Actions taken? (Yes or **No**)

4. Dredging suspended? (Yes or **No**)

5. Alarm logged in air monitoring action spreadsheet? (**Yes** or No)

Description of Action Taken:

A) No problems were found wrong with the air unit. A quick check of the calibration was performed however all system appeared normal.

IHC CDF Dredge Project : Air Monitoring Alarm Response Log

Air Monitoring Station: M1 M2 M3 M4 Dock

Air Monitoring Instrument:

Cerex Unit (Naphthalene) Thermo Unit (Particles) PID Monitor

Date & Time of alarm: 6/13/2015 6:00 AM Email sent to site Technician? (Yes or **No**)

Technician responded to the alarm; Scott Peterson

1. Was dredging occurring at the time of the alarm? (**Yes** or No)
2. Alarm caused by:

- | | |
|-------------------------------------|-----------------------------|
| <input type="checkbox"/> | Loss of Power |
| <input type="checkbox"/> | Loss of Radio Communication |
| <input type="checkbox"/> | Out of Calibration |
| <input type="checkbox"/> | UV Alignment |
| <input type="checkbox"/> | Blockage in Air Tube |
| <input type="checkbox"/> | Air Quality |
| <input checked="" type="checkbox"/> | Other: weather |

3. Corrective Actions taken? (Yes or **No**)
4. Dredging suspended? (Yes or **No**)
5. Alarm logged in air monitoring action spreadsheet? (**Yes** or No)

Description of Action Taken:

A) No problems were found wrong with the air unit.

IHC CDF Dredge Project : Air Monitoring Alarm Response Log

Air Monitoring Station: M1 M2 M3 M4 Dock

Air Monitoring Instrument:

Cerex Unit (Naphthalene) Thermo Unit (Particles) PID Monitor

Date & Time of alarm: 6/14/2015 to 6/15/2015 Email sent to site Technician? (Yes or No)

Technician responded to the alarm; Scott Peterson

1. Was dredging occurring at the time of the alarm? (Yes or No)
2. Alarm caused by:

- | | |
|-------------------------------------|-----------------------------|
| <input type="checkbox"/> | Loss of Power |
| <input type="checkbox"/> | Loss of Radio Communication |
| <input checked="" type="checkbox"/> | Out of Calibration |
| <input type="checkbox"/> | UV Alignment |
| <input type="checkbox"/> | Blockage in Air Tube |
| <input checked="" type="checkbox"/> | Air Quality |
| <input checked="" type="checkbox"/> | Other: Heavy thunderstorms |

3. Corrective Actions taken? (Yes or No)
4. Dredging suspended? (Yes or No)
5. Alarm logged in air monitoring action spreadsheet? (Yes or No)

Description of Action Taken:

A) Due to the server storms over the last week the air unit relative humidity went out of alignment. On Sunday morning a quick calibration with the Naphelometer was performed. At that time normal results were displayed on the Thermo unit. After the storm subsided on Monday a full calibration was performed on the air unit. The relative humidity was out of calibration. The relative humidity was adjusted and the air unit is reading correctly. An email was sent to the Thermo service department to confirm the display code and calibration results.

IHC CDF Dredge Project : Air Monitoring Alarm Response Log

Air Monitoring Station: M1 M2 M3 M4 Dock

Air Monitoring Instrument:

Cerex Unit (Naphthalene) Thermo Unit (Particles) PID Monitor

Date & Time of alarm: 6/16/2015 1:30AM Email sent to site Technician? (Yes or No)

Technician responded to the alarm; Scott Peterson

1. Was dredging occurring at the time of the alarm? (Yes or No)
2. Alarm caused by:

- | | |
|-------------------------------------|-----------------------------|
| <input type="checkbox"/> | Loss of Power |
| <input type="checkbox"/> | Loss of Radio Communication |
| <input type="checkbox"/> | Out of Calibration |
| <input type="checkbox"/> | UV Alignment |
| <input type="checkbox"/> | Blockage in Air Tube |
| <input type="checkbox"/> | Air Quality |
| <input checked="" type="checkbox"/> | Other: Insects |

3. Corrective Actions taken? (Yes or No)
4. Dredging suspended? (Yes or No)
5. Alarm logged in air monitoring action spreadsheet? (Yes or No)

Description of Action Taken:

- A) No problems found wrong with the air unit. Video camera records were reviewed, it was rainy and foggy at the time of the alarm. It is assume that a small spider was suck into the intake of the air unit.

IHC CDF Dredge Project : Air Monitoring Alarm Response Log

Air Monitoring Station: M1 M2 M3 M4 Dock

Air Monitoring Instrument:

Cerex Unit (Naphthalene) Thermo Unit (Particles) PID Monitor

Date & Time of alarm: 6/17/2015 6:45AM

Email sent to site Technician? (Yes or **No**)

Technician responded to the alarm; Scott Peterson

1. Was dredging occurring at the time of the alarm? (Yes or **No**)

2. Alarm caused by:

- Loss of Power
- Loss of Radio Communication
- Out of Calibration
- UV Alignment
- Blockage in Air Tube
- Air Quality
- Other:

3. Corrective Actions taken? (Yes or **No**)

4. Dredging suspended? (Yes or **No**)

5. Alarm logged in air monitoring action spreadsheet? (**Yes** or No)

Description of Action Taken:

A) No problems found wrong with the air unit. Video camera records were reviewed. The ground was damp and there was no movement around the air unit.