US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/1/15 12:00 AM	38.00	5.50	4.40	10.10	5.70	4.40	6.20	10.10	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 12:15 AM	31.00	4.00	6.70	14.10	7.40	6.70	5.60	14.10	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 12:30 AM	32.00	4.20	0.60	12.70	12.10	0.60	5.40	12.70	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 12:45 AM	34.00	4.80	1.00	10.10	9.10	1.00	5.00	10.10	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 1:00 AM	34.00	4.60	1.70	14.10	12.40	1.70	5.10	14.10	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 1:15 AM	28.00	5.60	3.50	9.40	5.90	3.50	5.70	9.40	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 1:30 AM	1.00	3.00	2.50	10.90	8.40	2.50	4.80	10.90	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 1:45 AM	35.00	4.90	0.80	10.40	9.60	0.80	5.00	10.40	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 2:00 AM	30.00	4.30	1.60	11.10	9.50	1.60	4.70	11.10	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 2:15 AM	15.00	4.80	13.60	13.30	0.00	13.60	4.80	13.30	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 2:30 AM	38.00	4.10	8.10	6.80	0.00	8.10	5.50	6.80	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 2:45 AM	37.00	4.90	2.10	11.90	9.80	2.10	5.10	11.90	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 3:00 AM	37.00	4.80	1.70	11.90	10.20	1.70	5.00	11.90	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 3:15 AM	44.00	6.50	6.30	11.60	5.30	6.30	5.20	11.60	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 3:30 AM	24.00	5.50	4.90	12.40	7.50	4.90	4.90	12.40	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 3:45 AM	22.00	4.60	3.10	9.50	6.40	3.10	4.80	9.50	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 4:00 AM	26.00	4.90	5.10	10.50	5.40	5.10	5.00	10.50	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 4:15 AM	18.00	5.30	3.30	9.30	6.00	3.30	4.80	9.30	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 4:30 AM	31.00	4.50	3.40	9.10	5.70	3.40	5.10	9.10	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 4:45 AM	35.00	5.60	3.50	9.60	6.10	3.50	4.50	9.60	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 5:00 AM	17.00	5.70	4.20	8.20	4.00	4.20	4.50	8.20	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 5:15 AM	38.00	5.70	4.20	6.30	2.10	4.20	4.90	6.30	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 5:30 AM	41.00	5.00	2.70	7.80	5.10	2.70	4.40	7.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 5:45 AM	41.00	4.90	2.70	6.60	3.90	2.70	4.40	6.60	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 6:00 AM	32.00	5.00	2.90	8.50	5.60	2.90	4.10	8.50	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 6:15 AM	44.00	5.10	2.60	9.80	7.20	2.60	4.30	9.80	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 6:30 AM	32.00	4.30	3.10	8.40	5.30	3.10	4.40	8.40	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 6:45 AM	39.00	6.60	3.40	9.10	5.70	3.40	4.80	9.10	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 7:00 AM	18.00	6.30	3.40	9.40	6.00	3.40	4.80	9.40	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 7:15 AM	41.00	5.30	3.60	9.20	5.60	3.60	4.90	9.20	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 7:30 AM	41.00	5.10	0.00	9.70	0.00	0.00	4.90	9.70	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 7:45 AM	42.00	4.80	4.20	9.20	5.00	4.20	5.00	9.20	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 8:00 AM	22.00	6.90	3.30	9.30	6.00	3.30	5.50	9.30	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 8:15 AM	27.00	5.70	4.00	9.20	5.20	4.00	5.90	9.20	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 8:30 AM	38.00	5.20	0.00	7.10	0.00	0.00	4.60	7.10	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 8:45 AM	31.00	5.30	5.30	7.80	2.50	5.30	5.10	7.80	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 9:00 AM	38.00	5.10	4.00	7.30	3.30	4.00	5.90	7.30	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 9:15 AM	51.00	5.10	4.90	8.50	3.60	4.90	5.80	8.50	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 9:30 AM	42.00	4.50	6.70	9.40	2.70	6.70	7.30	9.40	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 9:45 AM	47.00	5.40	0.00	10.50	0.00	0.00	6.30	10.50	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 10:00 AM	38.00	5.60	7.10	9.90	2.80	7.10	7.70	9.90	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 10:15 AM	39.00	4.50	6.90	11.40	4.50	6.90	6.70	11.40	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 10:30 AM	36.00	4.30	0.00	9.00	0.00	0.00	6.90	9.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 10:45 AM	58.00	3.30	0.00	9.40	0.00	0.00	9.20	9.40	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 11:00 AM	35.00	4.90	13.70	8.10	0.00	13.70	7.60	8.10	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 11:15 AM	31.00	5.70	0.00	6.90	0.00	0.00	6.40	6.90	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 11:30 AM	29.00	5.60	8.80	7.90	0.00	8.80	8.70	7.90	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 11:45 AM	45.00	5.10	0.00	7.70	0.00	0.00	7.80	7.70	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 12:00 PM	33.00	5.30	0.00	7.90	0.00	0.00	8.70	7.90	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 12:15 PM	57.00	4.90	5.70	6.30	0.60	5.70	6.80	6.30	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 12:30 PM	50.00	3.80	5.20	5.90	0.70	5.20	6.60	5.90	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 12:45 PM	20.00	4.70	8.90	6.90	0.00	8.90	9.00	6.90	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 1:00 PM	63.00	4.30	7.10	6.90	0.00	7.10	7.40	6.90	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 1:15 PM	53.00	6.70	8.80	7.90	0.00	8.80	13.10	7.90	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 1:30 PM	51.00	4.50	11.10	8.30	0.00	11.10	10.40	8.30	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 1:45 PM	60.00	5.10	15.70	10.10	0.00	15.70	14.40	10.10	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 2:00 PM	25.00	5.40	17.70	10.70	0.00	17.70	15.50	10.70	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 2:15 PM	49.00	4.60	17.20	13.60	0.00	17.20	19.80	13.60	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 2:30 PM	22.00	5.60	12.80	11.40	0.00	12.80	13.90	11.40	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 2:45 PM	26.00	6.10	12.80	12.90	0.10	12.80	18.60	12.90	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 3:00 PM	32.00	6.10	12.00	11.80	0.00	12.00	15.30	11.80	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 3:15 PM	33.00	5.40	0.00	13.80	0.00	0.00	14.50	13.80	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 3:30 PM	24.00	5.40	13.20	13.30	0.10	13.20	17.50	13.30	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 3:45 PM	54.00	4.80	11.10	13.20	2.10	11.10	16.10	13.20	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 4:00 PM	54.00	6.70	10.80	13.80	3.00	10.80	14.40	13.80	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 4:15 PM	65.00	4.30	6.80	11.20	4.40	6.80	12.60	11.20	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 4:30 PM	56.00	4.70	7.60	9.70	2.10	7.60	15.60	9.70	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 4:45 PM	41.00	4.30	7.40	9.40	2.00	7.40	7.60	9.40	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 5:00 PM	39.00	3.80	8.10	8.80	0.70	8.10	8.30	8.80	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 5:15 PM	75.00	4.10	12.00	9.40	0.00	12.00	10.50	9.40	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 5:30 PM	60.00	3.90	13.50	11.40	0.00	13.50	13.30	11.40	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 5:45 PM	54.00	4.50	8.40	13.00	4.60	8.40	19.80	13.00	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 6:00 PM	47.00	5.10	20.60	16.80	0.00	20.60	24.20	16.80	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 6:15 PM	44.00	4.30	30.00	18.10	0.00	30.00	15.40	18.10	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 6:30 PM	27.00	5.80	26.70	24.90	0.00	26.70	20.80	24.90	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 6:45 PM	37.00	6.10	20.50	22.70	2.20	20.50	24.00	22.70	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 7:00 PM	33.00	7.00	11.90	19.10	7.20	11.90	10.50	19.10	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 7:15 PM	23.00	8.00	8.50	14.80	6.30	8.50	16.60	14.80	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 7:30 PM	29.00	6.10	8.50	14.50	6.00	8.50	10.40	14.50	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 7:45 PM	24.00	6.80	5.20	15.00	9.80	5.20	10.00	15.00	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 8:00 PM	39.00	5.90	4.60	14.70	10.10	4.60	10.00	14.70	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 8:15 PM	27.00	7.10	7.50	18.20	10.70	7.50	13.60	18.20	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 8:30 PM	37.00	7.20	9.10	19.90	10.80	9.10	13.90	19.90	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 8:45 PM	38.00	4.90	10.90	22.40	11.50	10.90	17.20	22.40	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 9:00 PM	31.00	5.30	11.20	21.30	10.10	11.20	16.80	21.30	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 9:15 PM	16.00	6.20	7.30	20.10	12.80	7.30	17.90	20.10	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 9:30 PM	15.00	5.30	5.90	19.40	13.50	5.90	14.40	19.40	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 9:45 PM	16.00	4.90	0.00	21.10	0.00	0.00	15.40	21.10	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 10:00 PM	25.00	6.60	4.70	21.10	16.40	4.70	14.40	21.10	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 10:15 PM	22.00	5.50	5.20	26.90	21.70	5.20	12.10	26.90	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 10:30 PM	36.00	4.80	4.20	22.80	18.60	4.20	11.90	22.80	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 10:45 PM	41.00	6.70	7.70	14.80	7.10	7.70	11.60	14.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 11:00 PM	40.00	5.70	5.00	15.70	10.70	5.00	11.60	15.70	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 11:15 PM	33.00	5.90	4.10	17.60	13.50	4.10	10.60	17.60	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 11:30 PM	28.00	5.80	2.60	17.10	14.50	2.60	8.90	17.10	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/1/15 11:45 PM	24.00	5.10	2.40	16.00	13.60	2.40	8.50	16.00	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 12:00 AM	24.00	5.30	2.10	16.70	14.60	2.10	8.00	16.70	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 12:15 AM	26.00	5.20	2.60	20.50	17.90	2.60	8.30	20.50	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 12:30 AM	38.00	5.40	1.90	16.00	14.10	1.90	8.20	16.00	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 12:45 AM	43.00	5.20	3.70	18.30	14.60	3.70	7.90	18.30	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 1:00 AM	34.00	4.90	3.50	16.80	13.30	3.50	7.50	16.80	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Real-Time Air Monitoring Data
July 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
7/2/15 1:15 AM	30.00	5.90	1.40	17.00	15.60	1.40	6.70	17.00	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 1:30 AM	28.00	5.80	2.40	16.50	14.10	2.40	6.90	16.50	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 1:45 AM	31.00	4.70	2.20	14.60	12.40	2.20	6.80	14.60	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 2:00 AM	26.00	3.90	2.10	13.80	11.70	2.10	7.80	13.80	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 2:15 AM	29.00	3.30	1.80	15.10	13.30	1.80	7.30	15.10	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 2:30 AM	18.00	3.50	1.90	14.30	12.40	1.90	7.60	14.30	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 2:45 AM	349.00	2.50	2.00	8.80	6.80	2.80	8.80	14.90	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 3:00 AM	355.00	5.00	1.90	11.50	9.60	0.00	11.50	20.30	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 3:15 AM	356.00	5.10	2.20	11.20	9.00	0.00	11.20	21.00	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 3:30 AM	21.00	5.20	3.40	16.00	12.60	3.40	11.00	16.00	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 3:45 AM	37.00	6.20	11.90	17.50	5.60	11.90	17.10	17.50	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 4:00 AM	35.00	5.20	6.00	20.70	14.70	6.00	18.50	20.70	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 4:15 AM	40.00	5.90	4.70	20.30	15.60	4.70	17.60	20.30	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 4:30 AM	41.00	5.50	11.20	21.70	10.50	11.20	17.50	21.70	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 4:45 AM	35.00	7.00	10.00	25.60	15.60	10.00	16.10	25.60	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 5:00 AM	37.00	5.90	8.50	33.80	25.30	8.50	17.10	33.80	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 5:15 AM	33.00	6.90	0.00	32.90	0.00	0.00	15.50	32.90	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 5:30 AM	32.00	7.10	5.00	27.40	22.40	5.00	15.60	27.40	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 5:45 AM	35.00	7.70	5.00	28.20	23.20	5.00	15.40	28.20	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 6:00 AM	35.00	7.30	5.50	30.60	25.10	5.50	15.50	30.60	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 6:15 AM	39.00	5.00	3.90	27.60	23.70	3.90	13.80	27.60	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 6:30 AM	40.00	5.20	3.70	23.80	20.10	3.70	12.50	23.80	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 6:45 AM	28.00	6.50	3.20	23.80	20.60	3.20	12.50	23.80	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 7:00 AM	32.00	7.90	3.30	20.80	17.50	3.30	12.20	20.80	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 7:15 AM	43.00	5.70	3.80	19.00	15.20	3.80	13.30	19.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 7:30 AM	38.00	6.00	5.70	17.60	11.90	5.70	14.30	17.60	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 7:45 AM	24.00	7.30	6.40	15.50	9.10	6.40	12.70	15.50	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 8:00 AM	39.00	5.20	4.70	14.40	9.70	4.70	13.90	14.40	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 8:15 AM	28.00	5.20	4.60	14.30	9.70	4.60	12.50	14.30	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 8:30 AM	36.00	7.60	8.20	16.30	8.10	8.20	12.90	16.30	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 8:45 AM	34.00	7.10	5.40	12.20	6.80	5.40	11.60	12.20	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 9:00 AM	34.00	6.30	10.00	14.20	4.20	10.00	14.10	14.20	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 9:15 AM	33.00	6.50	10.50	13.30	2.80	10.50	17.90	13.30	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 9:30 AM	29.00	7.80	10.50	13.10	2.60	10.50	14.00	13.10	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 9:45 AM	40.00	8.00	13.90	12.10	0.00	13.90	12.90	12.10	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 10:00 AM	25.00	7.90	11.80	11.20	0.00	11.80	11.70	11.20	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 10:15 AM	27.00	7.30	10.60	11.40	0.80	10.60	11.50	11.40	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 10:30 AM	22.00	7.80	12.30	11.30	0.00	12.30	11.80	11.30	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 10:45 AM	22.00	8.80	11.20	11.70	0.50	11.20	11.80	11.70	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 11:00 AM	30.00	7.40	11.00	12.90	1.90	11.00	10.80	12.90	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 11:15 AM	36.00	8.00	9.90	15.20	5.30	9.90	11.40	15.20	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 11:30 AM	38.00	7.80	9.20	17.10	7.90	9.20	11.20	17.10	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 11:45 AM	35.00	8.00	8.80	14.80	6.00	8.80	11.30	14.80	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 12:00 PM	39.00	8.80	0.00	14.50	0.00	0.00	11.30	14.50	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 12:15 PM	24.00	7.00	8.40	13.50	5.10	8.40	19.30	13.50	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 12:30 PM	17.00	8.50	7.60	14.40	6.80	7.60	10.30	14.40	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 12:45 PM	12.00	9.60	8.40	14.10	5.70	8.40	11.30	14.10	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 1:00 PM	20.00	9.10	7.40	13.80	6.40	7.40	12.20	13.80	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 1:15 PM	11.00	8.40	0.00	15.90	0.00	0.00	11.70	15.90	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 1:30 PM	14.00	8.20	8.00	15.20	7.20	8.00	12.00	15.20	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 1:45 PM	16.00	8.80	7.40	17.70	10.30	7.40	14.80	17.70	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 2:00 PM	16.00	9.50	9.80	18.40	8.60	9.80	11.80	18.40	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 2:15 PM	23.00	8.50	15.50	18.90	3.40	15.50	11.30	18.90	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 2:30 PM	13.00	7.00	19.30	18.40	0.00	19.30	12.00	18.40	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 2:45 PM	29.00	9.10	12.20	19.90	7.70	12.20	12.10	19.90	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 3:00 PM	23.00	8.90	13.70	21.00	7.30	13.70	13.80	21.00	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 3:15 PM	2.00	8.30	14.80	18.20	3.40	14.80	17.40	18.20	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 3:30 PM	3.00	8.40	25.10	18.60	0.00	25.10	18.30	18.60	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 3:45 PM	14.00	8.10	13.10	17.30	4.20	13.10	15.70	17.30	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 4:00 PM	358.00	7.10	5.20	17.90	12.70	13.40	17.90	18.30	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 4:15 PM	4.00	8.10	11.60	16.40	4.80	11.60	18.00	16.40	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 4:30 PM	355.00	6.80	5.30	17.60	12.30	12.40	17.60	14.40	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 4:45 PM	0.00	7.30	13.30	12.90	0.00	13.30	20.80	12.90	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 5:00 PM	353.00	7.60	4.50	15.10	10.60	8.50	15.10	11.60	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 5:15 PM	5.00	7.50	8.60	10.00	1.40	8.60	13.70	10.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 5:30 PM	7.00	8.70	8.70	9.60	0.90	8.70	14.40	9.60	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 5:45 PM	16.00	8.70	11.70	11.40	0.00	11.70	15.80	11.40	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 6:00 PM	14.00	8.40	10.20	10.60	0.40	10.20	16.70	10.60	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 6:15 PM	8.00	8.00	13.30	11.80	0.00	13.30	16.30	11.80	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 6:30 PM	0.00	8.50	18.70	13.30	0.00	18.70	22.70	13.30	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 6:45 PM	11.00	6.50	13.80	12.90	0.00	13.80	21.90	12.90	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 7:00 PM	22.00	7.60	16.50	10.70	0.00	16.50	20.60	10.70	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 7:15 PM	14.00	7.30	12.00	12.00	0.00	12.00	19.10	12.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 7:30 PM	16.00	8.50	15.00	14.50	0.00	15.00	15.90	14.50	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 7:45 PM	15.00	6.90	22.10	14.10	0.00	22.10	17.70	14.10	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 8:00 PM	20.00	6.70	15.80	14.30	0.00	15.80	12.30	14.30	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 8:15 PM	30.00	6.30	10.60	14.40	3.80	10.60	14.10	14.40	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 8:30 PM	32.00	5.70	10.60	12.50	1.90	10.60	10.80	12.50	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 8:45 PM	37.00	6.30	9.40	17.30	7.90	9.40	9.50	17.30	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 9:00 PM	33.00	4.90	7.70	14.00	6.30	7.70	8.80	14.00	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 9:15 PM	30.00	5.50	7.00	15.10	8.10	7.00	8.10	15.10	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 9:30 PM	28.00	6.20	4.90	12.30	7.40	4.90	7.80	12.30	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 9:45 PM	32.00	5.10	7.30	11.90	4.60	7.30	9.00	11.90	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 10:00 PM	34.00	4.70	0.00	14.20	0.00	0.00	8.30	14.20	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 10:15 PM	34.00	4.50	5.40	14.90	9.50	5.40	8.50	14.90	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 10:30 PM	25.00	5.20	4.50	14.30	9.80	4.50	8.90	14.30	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 10:45 PM	28.00	5.10	5.10	16.00	10.90	5.10	9.70	16.00	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 11:00 PM	24.00	4.10	0.00	17.80	0.00	0.00	9.70	17.80	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 11:15 PM	25.00	5.80	4.00	14.20	10.20	4.00	9.70	14.20	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 11:30 PM	27.00	6.00	4.30	12.00	7.70	4.30	10.10	12.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/15 11:45 PM	32.00	5.00	0.00	14.50	0.00	0.00	11.80	14.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 12:00 AM	20.00	5.10	5.90	13.80	7.90	5.90	10.90	13.80	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 12:15 AM	25.00	5.30	2.30	13.90	11.60	2.30	11.30	13.90	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 12:30 AM	31.00	5.10	2.30	13.10	10.80	2.30	12.70	13.10	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 12:45 AM	35.00	4.80	2.40	12.80	10.40	2.40	12.90	12.80	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 1:00 AM	32.00	4.00	2.50	13.10	10.60	2.50	14.70	13.10	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 1:15 AM	40.00	3.20	3.00	11.30	8.30	3.00	15.20	11.30	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 1:30 AM	44.00	3.10	2.90	9.70	6.80	2.90	15.70	9.70	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 1:45 AM	40.00	2.80	5.40	12.90	7.50	5.40	15.10	12.90	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 2:00 AM	42.00	3.10	6.50	16.00	9.50	6.50	14.90	16.00	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 2:15 AM	46.00	1.70	6.00	18.40	12.40	6.00	17.70	18.40	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/3/15 2:30 AM	58.00	2.60	6.40	21.80	15.40	6.40	15.50	21.80	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 2:45 AM	53.00	3.00	10.70	20.60	9.90	10.70	17.10	20.60	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 3:00 AM	66.00	2.50	15.00	22.90	7.90	15.00	18.60	22.90	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 3:15 AM	60.00	2.90	12.40	25.70	13.30	12.40	27.10	25.70	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 3:30 AM	64.00	3.40	9.00	35.60	26.60	9.00	64.10	35.60	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 3:45 AM	66.00	3.60	34.40	31.60	0.00	34.40	40.90	31.60	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 4:00 AM	59.00	2.10	20.30	29.70	9.40	20.30	29.60	29.70	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 4:15 AM	72.00	2.30	15.60	24.60	9.00	15.60	24.20	24.60	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 4:30 AM	95.00	1.40	20.40	33.70	13.30	84.80	20.40	20.10	33.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 4:45 AM	79.00	2.00	15.70	20.50	4.80	15.70	19.40	20.50	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 5:00 AM	53.00	2.20	25.10	20.30	0.00	25.10	22.30	20.30	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 5:15 AM	55.00	2.50	21.20	20.30	0.00	21.20	20.70	20.30	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 5:30 AM	60.00	3.20	14.00	20.90	6.90	14.00	21.90	20.90	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 5:45 AM	73.00	2.40	12.60	21.60	9.00	12.60	21.20	21.60	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 6:00 AM	89.00	1.70	15.10	22.90	7.80	15.10	22.30	22.90	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 6:15 AM	124.00	1.90	23.80	13.50	0.00	0.00	23.80	25.50	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 6:30 AM	116.00	2.00	27.00	15.50	0.00	20.50	27.00	27.10	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 6:45 AM	129.00	3.60	26.70	12.70	0.00	20.80	26.70	27.90	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 7:00 AM	126.00	3.40	27.30	13.10	0.00	19.00	27.30	28.80	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 7:15 AM	117.00	3.10	25.60	11.40	0.00	17.10	25.60	28.30	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 7:30 AM	132.00	3.20	23.30	11.70	0.00	16.30	23.30	23.80	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 7:45 AM	128.00	3.70	24.20	10.30	0.00	15.10	24.20	21.40	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 8:00 AM	117.00	3.20	24.00	9.90	0.00	15.50	24.00	21.40	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 8:15 AM	133.00	3.40	27.70	9.90	0.00	16.90	27.70	18.30	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 8:30 AM	117.00	2.80	19.60	10.40	0.00	18.30	19.60	15.50	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 8:45 AM	129.00	2.10	14.60	8.30	0.00	16.70	14.60	11.90	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 9:00 AM	150.00	1.90	14.60	9.20	0.00	17.80	14.60	13.10	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 9:15 AM	121.00	1.50	17.10	9.10	0.00	19.20	17.10	14.50	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 9:30 AM	133.00	1.40	20.00	9.40	0.00	26.30	20.00	15.20	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 9:45 AM	155.00	2.10	15.90	13.50	0.00	22.30	15.90	14.70	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 10:00 AM	148.00	1.80	11.90	10.20	0.00	20.60	11.90	11.50	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 10:15 AM	345.00	1.90	7.60	12.70	5.10	10.80	12.70	11.20	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 10:30 AM	347.00	2.70	7.50	10.40	2.90	10.10	10.40	8.50	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 10:45 AM	344.00	3.10	9.20	8.80	0.00	11.70	8.80	6.90	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 11:00 AM	2.00	3.60	15.60	7.00	0.00	15.60	10.50	7.00	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 11:15 AM	1.00	3.40	16.50	8.60	0.00	16.50	12.90	8.60	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 11:30 AM	342.00	2.60	10.20	14.10	3.90	18.80	14.10	9.20	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 11:45 AM	347.00	4.10	11.30	20.50	9.20	28.80	20.50	12.80	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 12:00 PM	347.00	3.50	11.30	20.30	9.00	23.50	20.30	12.80	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 12:15 PM	347.00	4.30	11.00	22.10	11.10	25.20	22.10	15.30	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 12:30 PM	1.00	3.50	25.10	17.60	0.00	25.10	24.00	17.60	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 12:45 PM	354.00	4.30	11.40	24.20	12.80	22.70	24.20	19.20	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 1:00 PM	30.00	3.90	25.90	20.60	0.00	25.90	25.70	20.60	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 1:15 PM	28.00	3.80	35.70	19.30	0.00	35.70	23.50	19.30	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 1:30 PM	24.00	4.10	37.20	19.00	0.00	37.20	29.30	19.00	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 1:45 PM	24.00	3.60	34.90	19.30	0.00	34.90	32.10	19.30	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 2:00 PM	354.00	5.60	12.80	29.80	17.00	30.40	29.80	19.20	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 2:15 PM	20.00	4.90	32.20	19.90	0.00	32.20	28.40	19.90	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 2:30 PM	16.00	4.20	17.10	21.70	4.60	17.10	19.20	21.70	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 2:45 PM	28.00	4.90	16.00	19.70	3.70	16.00	13.40	19.70	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 3:00 PM	39.00	5.70	30.10	16.10	0.00	30.10	14.20	16.10	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 3:15 PM	38.00	5.10	15.00	15.40	0.40	15.00	12.80	15.40	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 3:30 PM	35.00	5.90	15.10	14.00	0.00	15.10	10.80	14.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 3:45 PM	38.00	4.80	15.60	13.80	0.00	15.60	10.50	13.80	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 4:00 PM	40.00	5.50	17.30	14.80	0.00	17.30	10.30	14.80	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 4:15 PM	22.00	4.50	16.40	10.50	0.00	16.40	7.80	10.50	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 4:30 PM	33.00	5.60	18.80	10.60	0.00	18.80	8.30	10.60	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 4:45 PM	36.00	5.40	17.80	10.90	0.00	17.80	8.10	10.90	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 5:00 PM	36.00	4.60	17.50	10.10	0.00	17.50	8.10	10.10	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 5:15 PM	37.00	5.30	16.50	9.70	0.00	16.50	8.80	9.70	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 5:30 PM	49.00	4.40	16.00	11.30	0.00	16.00	9.50	11.30	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 5:45 PM	48.00	3.60	17.00	13.80	0.00	17.00	8.50	13.80	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 6:00 PM	19.00	3.60	15.70	13.80	0.00	15.70	10.80	13.80	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 6:15 PM	27.00	4.00	15.50	13.30	0.00	15.50	11.20	13.30	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 6:30 PM	51.00	3.30	14.10	15.50	1.40	14.10	10.20	15.50	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 6:45 PM	107.00	2.00	12.20	12.80	0.60	20.10	12.20	13.00	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 7:00 PM	109.00	2.50	19.60	11.70	0.00	17.70	19.60	18.00	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 7:15 PM	112.00	2.40	18.20	10.70	0.00	12.10	18.20	15.60	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 7:30 PM	123.00	2.00	13.50	10.60	0.00	14.10	13.50	16.00	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 7:45 PM	79.00	2.40	16.80	21.60	4.80	16.80	15.50	21.60	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 8:00 PM	70.00	3.00	20.30	20.80	0.50	20.30	15.40	20.80	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 8:15 PM	70.00	3.40	38.70	24.30	0.00	38.70	16.40	24.30	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 8:30 PM	73.00	3.40	37.80	24.70	0.00	37.80	15.90	24.70	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 8:45 PM	80.00	3.20	30.60	24.60	0.00	30.60	17.20	24.60	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 9:00 PM	105.00	1.50	19.60	18.60	0.00	31.80	19.60	34.50	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 9:15 PM	136.00	3.30	18.30	12.70	0.00	23.10	18.30	28.10	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 9:30 PM	126.00	3.10	16.80	17.90	1.10	22.10	16.80	30.40	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 9:45 PM	141.00	2.30	15.70	17.70	2.00	26.20	15.70	32.70	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 10:00 PM	131.00	2.60	15.20	13.60	0.00	21.70	15.20	30.20	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 10:15 PM	152.00	1.90	16.60	12.20	0.00	18.70	16.60	28.00	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 10:30 PM	196.00	1.20	32.30	25.20	0.00	25.20	21.30	32.30	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 10:45 PM	199.00	1.00	46.60	19.10	0.00	19.10	50.80	46.60	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 11:00 PM	213.00	0.90	96.00	37.10	0.00	37.10	85.50	96.00	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 11:15 PM	179.00	0.90	25.30	33.70	8.40	66.90	25.30	42.20	33.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 11:30 PM	232.00	1.10	35.80	41.20	5.40	41.20	24.40	35.80	30.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/15 11:45 PM	231.00	0.90	54.60	46.10	0.00	46.10	42.10	54.60	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 12:00 AM	232.00	1.40	75.00	63.80	0.00	63.80	49.50	75.00	30.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 12:15 AM	246.00	0.90	79.60	55.30	0.00	55.30	61.70	79.60	36.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 12:30 AM	240.00	1.00	89.70	76.90	0.00	76.90	85.40	89.70	47.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 12:45 AM	254.00	0.60	93.60	93.50	0.00	93.50	97.50	93.60	38.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 1:00 AM	246.00	0.80	109.60	78.00	0.00	78.00	105.10	109.60	37.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 1:15 AM	219.00	0.70	107.60	84.20	0.00	84.20	102.50	107.60	46.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 1:30 AM	239.00	0.60	130.80	91.30	0.00	91.30	104.40	130.80	51.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 1:45 AM	259.00	1.20	132.20	99.70	0.00	99.70	117.70	132.20	53.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 2:00 AM	174.00	0.70	131.00	53.70	0.00	94.50	131.00	129.80	53.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 2:15 AM	218.00	1.10	126.00	90.10	0.00	90.10	142.10	126.00	52.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 2:30 AM	193.00	0.70	126.10	89.40	0.00	89.40	158.60	126.10	52.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 2:45 AM	197.00	0.90	117.90	84.20	0.00	84.20	130.60	117.90	53.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 3:00 AM	193.00	0.60	143.60	85.90	0.00	85.90	141.40	143.60	50.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 3:15 AM	264.00	0.40	138.00	88.90	0.00	88.90	124.70	138.00	51.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 3:30 AM	218.00	0.50	116.20	92.00	0.00	92.00	106.10	116.20	58.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/4/15 3:45 AM	261.00	0.90	117.30	85.70	0.00	85.70	107.70	117.30	56.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 4:00 AM	235.00	0.90	113.40	0.00	0.00	0.00	94.10	113.40	55.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 4:15 AM	234.00	1.50	111.80	78.10	0.00	78.10	91.40	111.80	52.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 4:30 AM	251.00	1.50	120.20	76.20	0.00	76.20	88.20	120.20	50.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 4:45 AM	242.00	1.70	125.70	84.80	0.00	84.80	94.50	125.70	50.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 5:00 AM	243.00	1.40	141.10	84.30	0.00	84.30	106.10	141.10	51.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 5:15 AM	231.00	1.30	117.60	79.70	0.00	79.70	110.10	117.60	48.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 5:30 AM	223.00	1.30	112.90	72.50	0.00	72.50	105.70	112.90	46.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 5:45 AM	188.00	0.80	88.80	71.10	0.00	71.10	103.00	88.80	44.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 6:00 AM	197.00	1.20	104.50	70.70	0.00	70.70	91.50	104.50	43.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 6:15 AM	213.00	0.80	104.20	71.90	0.00	71.90	90.50	104.20	45.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 6:30 AM	215.00	1.20	106.00	69.80	0.00	69.80	87.50	106.00	44.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 6:45 AM	214.00	1.40	104.30	66.70	0.00	66.70	88.00	104.30	43.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 7:00 AM	244.00	1.60	90.20	66.70	0.00	66.70	81.20	90.20	42.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 7:15 AM	238.00	1.50	82.70	64.40	0.00	64.40	76.00	82.70	42.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 7:30 AM	250.00	1.50	78.80	62.60	0.00	62.60	69.50	78.80	41.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 7:45 AM	252.00	1.40	77.40	62.20	0.00	62.20	66.30	77.40	40.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 8:00 AM	247.00	1.70	75.10	62.90	0.00	62.90	64.10	75.10	40.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 8:15 AM	223.00	1.70	68.60	62.40	0.00	62.40	60.60	68.60	39.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 8:30 AM	257.00	1.90	65.90	60.60	0.00	60.60	58.60	65.90	37.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 8:45 AM	230.00	2.00	60.80	57.00	0.00	57.00	54.50	60.80	36.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 9:00 AM	251.00	1.40	55.60	53.80	0.00	53.80	49.60	55.60	34.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 9:15 AM	249.00	1.20	52.30	50.10	0.00	50.10	46.10	52.30	32.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 9:30 AM	229.00	1.10	41.40	46.80	5.40	46.80	36.40	41.40	28.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 9:45 AM	226.00	2.00	34.20	41.10	6.90	41.10	30.10	34.20	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 10:00 AM	293.00	1.40	26.10	28.20	2.10	39.90	28.20	32.40	26.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 10:15 AM	175.00	0.70	27.00	25.70	0.00	38.60	27.00	31.80	25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 10:30 AM	156.00	0.60	26.80	25.30	0.00	37.80	26.80	30.30	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 10:45 AM	236.00	1.20	27.70	35.80	8.10	35.80	23.90	27.70	26.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 11:00 AM	226.00	2.50	21.40	32.40	11.00	32.40	22.60	21.40	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 11:15 AM	251.00	1.60	20.80	31.20	10.40	31.20	16.30	20.80	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 11:30 AM	161.00	0.90	13.80	17.80	4.00	24.90	13.80	16.90	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 11:45 AM	312.00	0.70	15.10	12.30	0.00	20.00	12.30	15.00	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 12:00 PM	356.00	1.50	14.70	13.10	0.00	18.90	13.10	14.30	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 12:15 PM	249.00	4.00	14.30	21.00	6.70	21.00	11.80	14.30	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 12:30 PM	44.00	2.20	22.20	13.00	0.00	22.20	11.80	13.00	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 12:45 PM	105.00	2.50	12.10	16.20	4.10	20.90	12.10	13.50	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 1:00 PM	130.00	4.30	12.40	18.00	5.60	23.80	12.40	13.80	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 1:15 PM	92.00	3.40	16.70	19.70	3.00	24.80	16.70	14.00	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 1:30 PM	114.00	3.50	19.80	16.90	0.00	24.80	19.80	19.40	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 1:45 PM	106.00	2.80	22.70	17.20	0.00	40.00	22.70	21.30	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 2:00 PM	112.00	3.60	17.70	30.00	12.30	33.00	17.70	21.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 2:15 PM	124.00	4.00	15.90	20.90	5.00	21.60	15.90	16.70	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 2:30 PM	70.00	4.00	21.10	18.60	0.00	21.10	15.90	18.60	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 2:45 PM	82.00	3.80	21.60	19.20	0.00	21.60	17.00	19.20	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 3:00 PM	113.00	4.00	16.10	21.00	4.90	22.00	16.10	20.40	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 3:15 PM	115.00	3.70	17.30	23.30	6.00	24.90	17.30	20.00	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 3:30 PM	118.00	4.20	17.00	23.30	6.30	26.70	17.00	23.80	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 3:45 PM	82.00	4.20	29.00	26.00	0.00	29.00	18.40	26.00	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 4:00 PM	108.00	3.90	21.10	22.90	1.80	29.80	21.10	26.30	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 4:15 PM	121.00	4.00	18.60	23.00	4.40	26.30	18.60	23.50	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 4:30 PM	107.00	2.60	17.00	22.10	5.10	21.00	17.00	22.70	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 4:45 PM	107.00	4.00	16.00	21.00	5.00	21.00	16.00	22.90	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 5:00 PM	70.00	3.80	20.70	24.60	3.90	20.70	16.90	24.60	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 5:15 PM	120.00	3.60	17.30	21.10	3.80	25.30	17.30	23.40	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 5:30 PM	111.00	2.50	16.70	18.80	2.10	21.30	16.70	23.30	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 5:45 PM	107.00	2.70	15.80	19.30	3.50	21.70	15.80	26.50	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 6:00 PM	104.00	3.20	15.00	19.10	4.10	21.30	15.00	25.20	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 6:15 PM	114.00	2.70	17.00	18.60	1.60	19.80	17.00	27.70	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 6:30 PM	97.00	2.10	16.90	18.20	1.30	21.70	16.90	26.00	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 6:45 PM	98.00	2.90	18.50	18.30	0.00	21.20	18.50	26.20	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 7:00 PM	100.00	3.00	16.60	18.80	2.20	20.80	16.60	29.30	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 7:15 PM	86.00	4.10	20.30	30.50	10.20	20.30	18.10	30.50	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 7:30 PM	105.00	2.80	18.90	20.10	1.20	23.30	18.90	32.60	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 7:45 PM	90.00	2.40	20.40	22.00	1.60	23.20	20.40	31.00	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 8:00 PM	114.00	3.10	20.20	20.30	0.10	22.20	20.20	30.30	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 8:15 PM	114.00	2.20	18.40	22.80	4.40	24.60	18.40	32.10	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 8:30 PM	131.00	1.90	19.50	21.10	1.60	24.70	19.50	29.40	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 8:45 PM	129.00	2.00	20.20	19.10	0.00	21.50	20.20	32.30	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 9:00 PM	133.00	2.10	19.80	17.30	0.00	18.90	19.80	30.00	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 9:15 PM	84.00	0.70	0.00	27.00	0.00	0.00	17.80	27.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 9:30 PM	90.00	0.70	24.10	19.10	0.00	23.10	24.10	35.30	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 9:45 PM	145.00	0.60	27.40	21.10	0.00	23.30	27.40	36.90	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 10:00 PM	189.00	0.50	53.20	27.00	0.00	27.00	35.60	53.20	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 10:15 PM	197.00	0.70	78.90	29.30	0.00	29.30	69.20	78.90	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 10:30 PM	200.00	0.70	78.90	30.00	0.00	30.00	77.70	78.90	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 10:45 PM	199.00	0.40	110.80	36.00	0.00	36.00	66.00	110.80	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 11:00 PM	203.00	0.70	132.30	46.70	0.00	46.70	113.70	132.30	49.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 11:15 PM	196.00	0.90	156.90	66.30	0.00	66.30	138.80	156.90	55.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 11:30 PM	204.00	1.00	231.90	195.70	0.00	195.70	192.70	231.90	122.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/15 11:45 PM	209.00	1.00	343.10	233.20	0.00	233.20	258.30	343.10	118.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 12:00 AM	200.00	0.40	386.20	273.80	0.00	273.80	342.30	386.20	157.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 12:15 AM	203.00	0.60	480.30	378.20	0.00	378.20	441.00	480.30	210.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 12:30 AM	157.00	0.70	473.20	268.30	0.00	408.30	473.20	843.70	268.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 12:45 AM	141.00	1.00	554.30	335.30	0.00	515.00	554.30	951.90	335.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 1:00 AM	166.00	1.10	723.10	397.80	0.00	647.20	723.10	1122.50	397.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 1:15 AM	188.00	1.00	1113.20	734.40	0.00	734.40	1072.80	1113.20	580.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 1:30 AM	177.00	0.70	1005.50	514.00	0.00	695.00	1005.50	1415.00	514.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 1:45 AM	175.00	0.90	1029.10	508.00	0.00	610.90	1029.10	1545.80	508.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 2:00 AM	236.00	0.50	1068.70	580.70	0.00	580.70	845.40	1068.70	440.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 2:15 AM	217.00	0.90	1176.60	605.80	0.00	605.80	816.30	1176.60	468.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 2:30 AM	190.00	1.50	1207.40	686.00	0.00	686.00	806.90	1207.40	482.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 2:45 AM	194.00	1.90	1041.20	499.40	0.00	499.40	683.50	1041.20	481.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 3:00 AM	172.00	1.00	531.30	442.10	0.00	449.10	531.30	865.30	442.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 3:15 AM	213.00	0.70	922.60	447.00	0.00	447.00	550.20	922.60	356.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 3:30 AM	221.00	0.90	769.70	465.70	0.00	465.70	563.20	769.70	301.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 3:45 AM	186.00	0.90	415.70	377.10	0.00	377.10	417.40	415.70	213.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 4:00 AM	232.00	0.30	415.70	377.10	0.00	377.10	425.90	415.70	213.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 4:15 AM	163.00	0.80	361.70	198.50	0.00	267.30	361.70	361.70	198.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 4:30 AM	173.00	0.90	299.50	187.50	0.00	235.50	299.50	355.30	187.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 4:45 AM	229.00	0.90	335.80	239.80	0.00	239.80	289.50	335.80	155.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/5/15 5:00 AM	191.00	0.40	311.80	241.90	0.00	241.90	241.70	311.80	151.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 5:15 AM	175.00	0.80	242.20	153.90	0.00	226.90	242.20	316.20	153.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 5:30 AM	233.00	1.70	350.60	203.60	0.00	203.60	249.90	350.60	143.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 5:45 AM	188.00	1.20	321.00	207.70	0.00	207.70	217.90	321.00	135.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 6:00 AM	214.00	1.10	339.30	186.30	0.00	186.30	215.00	339.30	134.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 6:15 AM	199.00	1.20	323.50	180.80	0.00	180.80	209.10	323.50	130.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 6:30 AM	212.00	1.20	297.70	169.70	0.00	169.70	215.00	297.70	132.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 6:45 AM	226.00	1.70	288.10	160.10	0.00	160.10	196.30	288.10	133.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 7:00 AM	211.00	1.00	266.40	146.30	0.00	146.30	171.50	266.40	134.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 7:15 AM	226.00	1.40	259.90	148.10	0.00	148.10	163.70	259.90	116.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 7:30 AM	215.00	1.10	204.60	134.90	0.00	134.90	142.30	204.60	108.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 7:45 AM	236.00	2.30	184.80	0.00	0.00	0.00	131.70	184.80	103.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 8:00 AM	235.00	1.40	184.80	0.00	0.00	0.00	131.70	184.80	103.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 8:15 AM	242.00	1.60	131.50	104.10	0.00	104.10	105.70	131.50	80.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 8:30 AM	255.00	1.30	122.20	98.30	0.00	98.30	87.80	122.20	70.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 8:45 AM	250.00	1.70	93.90	81.90	0.00	81.90	74.60	93.90	57.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 9:00 AM	205.00	1.00	67.30	62.20	0.00	62.20	56.00	67.30	50.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 9:15 AM	245.00	1.40	62.70	52.50	0.00	52.50	54.50	62.70	42.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 9:30 AM	191.00	2.10	49.30	46.00	0.00	46.00	41.20	49.30	38.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 9:45 AM	195.00	1.10	39.90	40.20	0.30	40.20	35.20	39.90	31.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 10:00 AM	169.00	1.80	35.10	30.00	0.00	40.70	35.10	38.50	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 10:15 AM	239.00	2.20	31.90	38.90	7.00	38.90	29.70	31.90	29.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 10:30 AM	132.00	2.00	24.60	25.20	0.60	32.50	24.60	28.10	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 10:45 AM	213.00	1.70	21.60	28.10	6.50	28.10	23.10	21.60	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 11:00 AM	219.00	0.90	21.60	30.10	8.50	30.10	22.90	21.60	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 11:15 AM	222.00	3.40	21.70	30.70	9.00	30.70	22.90	21.70	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 11:30 AM	232.00	1.20	22.10	31.10	9.00	31.10	23.20	22.10	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 11:45 AM	177.00	2.80	21.50	23.60	2.10	32.30	21.50	21.60	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 12:00 PM	213.00	1.90	20.10	29.50	9.40	29.50	22.10	20.10	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 12:15 PM	180.00	1.40	20.10	31.40	11.30	31.40	21.20	20.10	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 12:30 PM	154.00	2.60	22.30	22.10	0.00	30.30	22.30	20.00	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 12:45 PM	188.00	2.50	20.20	30.80	10.60	30.80	21.30	20.20	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 1:00 PM	172.00	2.20	21.00	22.60	1.60	30.30	21.00	19.40	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 1:15 PM	190.00	3.40	18.70	28.60	9.90	28.60	20.80	18.70	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 1:30 PM	182.00	3.70	18.70	30.00	11.30	30.00	20.20	18.70	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 1:45 PM	145.00	1.50	20.20	22.40	2.20	29.20	20.20	18.10	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 2:00 PM	218.00	2.50	18.20	29.10	10.90	29.10	20.30	18.20	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 2:15 PM	178.00	3.70	35.20	24.20	0.00	28.60	35.20	18.70	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 2:30 PM	137.00	3.30	21.10	23.60	2.50	30.10	21.10	18.50	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 2:45 PM	173.00	4.60	21.50	24.50	3.00	30.90	21.50	18.90	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 3:00 PM	113.00	3.70	21.00	24.70	3.70	29.80	21.00	19.60	24.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 3:15 PM	113.00	4.40	20.70	25.70	5.00	31.90	20.70	19.80	25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 3:30 PM	132.00	3.20	21.70	27.30	5.60	31.20	21.70	19.30	27.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 3:45 PM	137.00	3.20	22.40	27.80	5.40	30.20	22.40	19.80	27.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 4:00 PM	112.00	3.30	21.90	26.70	4.80	35.00	21.90	19.40	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 4:15 PM	126.00	2.90	23.50	27.50	4.00	29.60	23.50	21.60	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 4:30 PM	111.00	2.10	24.00	27.00	3.00	30.10	24.00	23.30	27.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 4:45 PM	89.00	2.50	30.20	21.60	0.00	30.20	24.70	21.60	28.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 5:00 PM	142.00	1.80	27.20	29.00	1.80	31.20	27.20	26.70	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 5:15 PM	144.00	4.10	28.00	30.00	2.00	32.50	28.00	24.60	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 5:30 PM	149.00	2.90	25.20	28.70	3.50	30.40	25.20	24.60	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 5:45 PM	172.00	2.60	26.40	28.00	1.60	30.10	26.40	24.40	28.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 6:00 PM	167.00	3.90	27.40	27.00	0.00	30.10	27.40	27.60	27.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 6:15 PM	113.00	2.20	23.90	27.40	3.50	31.50	23.90	22.20	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 6:30 PM	159.00	1.80	22.10	29.10	7.00	30.10	22.10	21.20	29.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 6:45 PM	153.00	1.00	22.90	25.00	2.10	28.20	22.90	22.90	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 7:00 PM	109.00	2.50	21.60	27.10	5.50	29.30	21.60	21.10	27.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 7:15 PM	107.00	2.50	22.30	26.80	4.50	28.90	22.30	21.10	26.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 7:30 PM	61.00	2.40	30.00	21.10	0.00	30.00	25.80	21.10	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 7:45 PM	116.00	2.00	26.20	24.40	0.00	32.00	26.20	21.10	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 8:00 PM	121.00	2.30	26.80	25.30	0.00	30.90	26.80	21.10	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 8:15 PM	120.00	2.20	29.20	25.80	0.00	32.70	29.20	21.10	25.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 8:30 PM	130.00	1.90	35.10	26.10	0.00	33.20	35.10	21.10	26.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 8:45 PM	137.00	1.80	34.00	26.10	0.00	35.10	34.00	21.10	26.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 9:00 PM	127.00	1.60	39.30	30.00	0.00	39.40	39.30	21.10	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 9:15 PM	131.00	1.20	42.10	30.80	0.00	43.00	42.10	21.10	30.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 9:30 PM	141.00	1.40	47.90	32.20	0.00	46.30	47.90	21.10	32.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 9:45 PM	137.00	1.90	49.40	35.40	0.00	0.00	49.40	21.10	35.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 10:00 PM	150.00	2.10	58.80	36.80	0.00	48.30	58.80	21.10	36.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 10:15 PM	165.00	2.00	62.90	37.70	0.00	51.80	62.90	21.10	37.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 10:30 PM	167.00	2.20	69.80	38.90	0.00	54.90	69.80	21.10	38.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 10:45 PM	176.00	2.30	71.50	38.70	0.00	54.30	71.50	21.10	38.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 11:00 PM	167.00	2.90	73.20	38.30	0.00	57.00	73.20	21.10	38.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 11:15 PM	165.00	2.60	55.30	40.20	0.00	58.20	55.30	21.10	40.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 11:30 PM	167.00	2.70	52.60	37.00	0.00	49.90	52.60	21.10	37.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/15 11:45 PM	169.00	2.30	55.10	37.70	0.00	58.20	55.10	21.10	37.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 12:00 AM	166.00	2.90	50.40	37.70	0.00	52.10	50.40	21.10	37.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 12:15 AM	173.00	2.30	47.70	36.60	0.00	50.10	47.70	21.10	36.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 12:30 AM	204.00	1.60	21.10	46.40	25.30	46.40	46.10	21.10	34.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 12:45 AM	183.00	2.70	21.10	44.70	23.60	44.70	44.10	21.10	34.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 1:00 AM	185.00	2.50	21.10	44.60	23.50	44.60	45.60	21.10	32.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 1:15 AM	182.00	2.70	21.10	43.70	22.60	43.70	45.20	21.10	32.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 1:30 AM	183.00	2.10	21.10	44.60	23.50	44.60	46.00	21.10	33.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 1:45 AM	184.00	2.90	21.10	48.70	27.60	48.70	48.30	21.10	32.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 2:00 AM	180.00	2.50	21.10	48.20	27.10	48.20	48.50	21.10	33.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 2:15 AM	179.00	2.00	49.60	33.60	0.00	47.80	49.60	21.10	33.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 2:30 AM	185.00	1.80	21.10	51.50	30.40	51.50	50.90	21.10	34.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 2:45 AM	179.00	2.70	48.90	34.40	0.00	46.80	48.90	21.10	34.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 3:00 AM	178.00	2.80	50.10	33.10	0.00	46.50	50.10	21.10	33.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 3:15 AM	190.00	2.10	21.10	48.50	27.40	48.50	51.60	21.10	33.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 3:30 AM	200.00	1.50	21.10	49.20	28.10	49.20	53.90	21.10	33.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 3:45 AM	167.00	2.00	54.80	32.90	0.00	49.50	54.80	21.10	32.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 4:00 AM	172.00	2.90	54.80	33.00	0.00	48.50	54.80	21.10	33.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 4:15 AM	187.00	2.50	21.10	48.20	27.10	48.20	55.60	21.10	32.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 4:30 AM	174.00	2.20	55.50	32.50	0.00	47.40	55.50	21.10	32.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 4:45 AM	180.00	2.60	21.10	48.30	27.20	48.30	55.80	21.10	33.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 5:00 AM	172.00	2.90	56.40	32.90	0.00	47.80	56.40	21.10	32.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 5:15 AM	166.00	3.20	57.40	32.60	0.00	49.00	57.40	21.10	32.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 5:30 AM	170.00	3.60	57.10	33.40	0.00	48.50	57.10	21.10	33.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 5:45 AM	182.00	2.70	21.10	47.50	26.40	47.50	57.10	21.10	33.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 6:00 AM	186.00	2.40	21.10	48.90	27.80	48.90	58.00	21.10	32.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/6/15 6:15 AM	207.00	2.10	21.10	48.30	27.20	48.30	58.70	21.10	33.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 6:30 AM	203.00	2.80	21.10	50.20	29.10	50.20	59.50	21.10	33.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 6:45 AM	190.00	3.20	21.10	48.10	27.00	48.10	60.50	21.10	31.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 7:00 AM	195.00	3.20	21.10	46.10	25.00	46.10	62.20	21.10	30.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 7:15 AM	178.00	4.10	61.90	30.90	0.00	45.70	61.90	21.10	30.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 7:30 AM	185.00	2.90	21.10	45.40	24.30	45.40	60.80	21.10	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 7:45 AM	190.00	3.20	21.10	44.50	23.40	44.50	59.40	21.10	29.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 8:00 AM	191.00	3.30	21.10	44.10	23.00	44.10	55.90	21.10	29.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 8:15 AM	178.00	4.40	53.90	28.90	0.00	43.60	53.90	21.10	28.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 8:30 AM	168.00	5.20	52.20	29.00	0.00	44.30	52.20	21.10	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 8:45 AM	188.00	4.20	21.10	43.90	22.80	43.90	48.00	21.10	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 9:00 AM	178.00	5.50	44.80	28.30	0.00	43.80	44.80	21.10	28.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 9:15 AM	191.00	5.40	21.10	44.50	23.40	44.50	44.20	21.10	29.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 9:30 AM	181.00	4.20	21.10	46.40	25.30	46.40	44.20	21.10	31.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 9:45 AM	195.00	4.80	21.10	47.90	26.80	47.90	44.30	21.10	32.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 10:00 AM	188.00	4.60	21.10	47.70	26.60	47.70	44.80	21.10	32.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 10:15 AM	185.00	7.30	21.10	54.00	32.90	54.00	46.60	21.10	34.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 10:30 AM	190.00	4.30	21.10	52.80	31.70	52.80	47.40	21.10	34.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 10:45 AM	186.00	5.40	21.10	54.60	33.50	54.60	47.60	21.10	36.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 11:00 AM	185.00	5.60	21.10	55.30	34.20	55.30	46.70	21.10	35.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 11:15 AM	189.00	7.70	21.10	50.10	29.00	50.10	43.60	21.10	33.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 11:30 AM	196.00	6.50	21.10	45.20	24.10	45.20	39.40	21.10	28.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 11:45 AM	208.00	6.30	21.10	40.80	19.70	40.80	34.00	21.10	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 12:00 PM	202.00	6.80	21.10	38.90	17.80	38.90	32.00	21.10	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 12:15 PM	182.00	6.10	21.10	38.30	17.20	38.30	34.80	21.10	25.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 12:30 PM	176.00	6.50	33.00	25.40	0.00	39.80	33.00	21.10	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 12:45 PM	181.00	7.30	21.10	37.40	16.30	37.40	32.00	21.10	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 1:00 PM	173.00	8.30	29.40	23.20	0.00	33.80	29.40	21.10	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 1:15 PM	200.00	5.30	21.10	36.70	15.60	36.70	33.80	21.10	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 1:30 PM	183.00	4.00	21.10	32.80	11.70	32.80	29.10	21.10	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 1:45 PM	193.00	5.70	21.10	0.00	0.00	0.00	27.60	21.10	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 2:00 PM	194.00	4.70	21.10	30.20	9.10	30.20	25.30	21.10	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 2:15 PM	189.00	7.90	21.10	29.10	8.00	29.10	24.70	21.10	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 2:30 PM	183.00	6.00	21.10	0.00	0.00	0.00	24.00	21.10	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 2:45 PM	196.00	7.90	21.10	27.70	6.60	27.70	24.40	21.10	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 3:00 PM	185.00	7.60	21.10	28.00	6.90	28.00	24.00	21.10	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 3:15 PM	202.00	6.20	21.10	27.90	6.80	27.90	24.70	21.10	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 3:30 PM	197.00	5.90	21.10	26.50	5.40	26.50	23.80	21.10	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 3:45 PM	202.00	5.00	21.10	27.30	6.20	27.30	23.80	21.10	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 4:00 PM	201.00	6.70	21.10	26.60	5.50	26.60	23.80	21.10	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 4:15 PM	293.00	9.60	19.40	24.80	5.40	27.90	24.80	21.10	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 4:30 PM	136.00	2.90	24.50	18.30	0.00	27.10	24.50	21.10	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 4:45 PM	177.00	2.90	23.10	18.10	0.00	24.80	23.10	21.10	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 5:00 PM	187.00	3.80	21.10	23.40	2.30	23.40	22.50	21.10	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 5:15 PM	166.00	4.80	0.00	28.70	0.00	49.50	0.00	21.10	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 5:30 PM	171.00	6.50	20.30	8.00	0.00	17.20	20.30	21.10	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 5:45 PM	171.00	3.00	18.30	9.10	0.00	12.30	18.30	21.10	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 6:00 PM	172.00	3.80	19.70	8.00	0.00	10.70	19.70	21.10	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 6:15 PM	172.00	5.10	22.40	9.30	0.00	12.20	22.40	21.10	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 6:30 PM	186.00	4.50	21.10	9.60	0.00	9.60	15.90	21.10	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 6:45 PM	190.00	6.10	21.10	8.10	0.00	8.10	12.20	21.10	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 7:00 PM	191.00	6.80	21.10	8.40	0.00	8.40	11.30	21.10	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 7:15 PM	193.00	4.50	26.10	10.10	0.00	10.10	14.00	26.10	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 7:30 PM	186.00	4.60	30.50	11.50	0.00	11.50	15.80	30.50	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 7:45 PM	177.00	4.50	17.20	7.90	0.00	12.30	17.20	33.20	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 8:00 PM	192.00	5.30	25.70	9.90	0.00	9.90	15.20	25.70	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 8:15 PM	174.00	4.80	10.20	4.80	0.00	6.40	10.20	16.90	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 8:30 PM	186.00	3.90	14.60	6.40	0.00	6.40	9.80	14.60	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 8:45 PM	193.00	5.20	16.20	7.60	0.00	7.60	11.30	16.20	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 9:00 PM	187.00	5.40	16.10	8.00	0.00	8.00	11.00	16.10	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 9:15 PM	195.00	4.80	13.30	5.10	0.00	5.10	8.80	13.30	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 9:30 PM	191.00	4.90	13.50	5.70	0.00	5.70	10.30	13.50	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 9:45 PM	196.00	3.80	19.20	7.20	0.00	7.20	13.00	19.20	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 10:00 PM	237.00	3.60	24.70	9.20	0.00	9.20	14.80	24.70	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 10:15 PM	267.00	6.10	29.70	9.60	0.00	9.60	16.70	29.70	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 10:30 PM	249.00	2.70	35.90	11.20	0.00	11.20	18.80	35.90	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 10:45 PM	209.00	1.90	40.30	12.50	0.00	12.50	20.60	40.30	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 11:00 PM	180.00	2.20	49.40	13.10	0.00	13.10	21.70	49.40	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 11:15 PM	205.00	2.80	34.80	4.20	0.00	4.20	13.30	34.80	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 11:30 PM	202.00	2.40	22.10	3.20	0.00	3.20	10.20	22.10	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/15 11:45 PM	203.00	2.70	22.80	3.30	0.00	3.30	10.40	22.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 12:00 AM	219.00	2.60	28.90	4.10	0.00	4.10	12.00	28.90	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 12:15 AM	269.00	3.60	30.40	0.00	0.00	0.00	12.30	30.40	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 12:30 AM	238.00	2.70	35.30	6.30	0.00	6.30	13.00	35.30	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 12:45 AM	248.00	3.40	45.70	9.20	0.00	9.20	16.80	45.70	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 1:00 AM	241.00	3.20	72.40	12.00	0.00	12.00	24.50	72.40	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 1:15 AM	222.00	2.10	87.70	10.30	0.00	10.30	21.60	87.70	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 1:30 AM	200.00	2.20	62.60	6.20	0.00	6.20	16.80	62.60	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 1:45 AM	229.00	2.50	55.40	6.30	0.00	6.30	16.30	55.40	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 2:00 AM	206.00	2.30	45.50	0.00	0.00	0.00	15.00	45.50	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 2:15 AM	192.00	1.60	43.70	6.50	0.00	6.50	15.10	43.70	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 2:30 AM	185.00	2.80	45.00	7.10	0.00	7.10	15.40	45.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 2:45 AM	181.00	2.50	39.70	7.30	0.00	7.30	13.90	39.70	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 3:00 AM	200.00	2.70	37.10	6.00	0.00	6.00	13.20	37.10	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 3:15 AM	204.00	2.50	32.40	5.60	0.00	5.60	12.80	32.40	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 3:30 AM	187.00	1.50	35.30	5.20	0.00	5.20	12.80	35.30	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 3:45 AM	189.00	2.10	28.40	4.90	0.00	4.90	12.40	28.40	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 4:00 AM	185.00	2.00	31.70	7.20	0.00	7.20	14.70	31.70	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 4:15 AM	215.00	3.20	39.60	9.40	0.00	9.40	18.40	39.60	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 4:30 AM	274.00	1.80	5.40	17.90	12.50	9.50	17.90	47.10	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 4:45 AM	242.00	3.60	55.30	8.40	0.00	8.40	16.40	55.30	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 5:00 AM	228.00	3.40	62.70	7.20	0.00	7.20	15.90	62.70	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 5:15 AM	1.00	10.70	6.90	72.50	65.60	6.90	16.80	72.50	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 5:30 AM	353.00	12.90	4.70	18.40	13.70	8.60	18.40	94.60	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 5:45 AM	358.00	12.00	4.40	18.90	14.50	6.60	18.90	102.50	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 6:00 AM	356.00	11.20	3.70	16.60	12.90	5.80	16.60	96.80	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 6:15 AM	7.00	10.30	21.20	96.50	75.30	21.20	20.70	96.50	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 6:30 AM	1.00	12.40	30.80	27.60	0.00	30.80	24.30	27.60	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 6:45 AM	5.00	11.70	34.20	5.80	0.00	34.20	22.20	5.80	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 7:00 AM	7.00	13.90	38.80	5.00	0.00	38.80	23.10	5.00	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 7:15 AM	5.00	11.50	43.70	5.90	0.00	43.70	24.50	5.90	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/7/15 7:30 AM	0.00	12.30	49.40	6.50	0.00	49.40	27.80	6.50	28.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 7:45 AM	2.00	15.40	61.50	7.80	0.00	61.50	34.90	7.80	32.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 8:00 AM	2.00	15.00	72.20	9.60	0.00	72.20	39.30	9.60	43.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 8:15 AM	10.00	10.20	68.20	9.90	0.00	68.20	43.90	9.90	41.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 8:30 AM	12.00	10.50	72.50	9.70	0.00	72.50	42.40	9.70	38.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 8:45 AM	9.00	13.20	55.20	8.50	0.00	55.20	36.80	8.50	33.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 9:00 AM	11.00	9.00	46.70	7.70	0.00	46.70	31.70	7.70	29.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 9:15 AM	16.00	9.50	38.70	5.20	0.00	38.70	22.70	5.20	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 9:30 AM	11.00	9.50	33.90	5.20	0.00	33.90	23.60	5.20	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 9:45 AM	16.00	9.80	34.90	5.70	0.00	34.90	21.00	5.70	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 10:00 AM	2.00	12.50	32.00	4.50	0.00	32.00	18.60	4.50	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 10:15 AM	5.00	10.60	21.80	3.50	0.00	21.80	12.40	3.50	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 10:30 AM	1.00	12.70	20.30	3.20	0.00	20.30	10.40	3.20	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 10:45 AM	14.00	11.50	17.60	2.50	0.00	17.60	8.60	2.50	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 11:00 AM	15.00	13.00	15.30	2.30	0.00	15.30	7.10	2.30	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 11:15 AM	10.00	11.30	20.30	2.10	0.00	20.30	7.60	2.10	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 11:30 AM	19.00	11.40	17.10	1.80	0.00	17.10	9.50	1.80	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 11:45 AM	16.00	11.10	12.90	1.70	0.00	12.90	6.80	1.70	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 12:00 PM	15.00	9.50	9.70	1.50	0.00	9.70	4.50	1.50	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 12:15 PM	8.00	10.50	10.60	1.40	0.00	10.60	5.00	1.40	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 12:30 PM	8.00	11.90	15.40	1.40	0.00	15.40	4.80	1.40	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 12:45 PM	17.00	10.60	7.10	1.30	0.00	7.10	3.00	1.30	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 1:00 PM	1.00	12.00	6.20	1.40	0.00	6.20	3.00	1.40	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 1:15 PM	3.00	12.90	13.80	1.30	0.00	13.80	2.30	1.30	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 1:30 PM	4.00	9.80	15.90	1.50	0.00	15.90	4.00	1.50	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 1:45 PM	6.00	11.30	12.60	1.40	0.00	12.60	2.60	1.40	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 2:00 PM	27.00	9.80	12.50	1.30	0.00	12.50	2.60	1.30	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 2:15 PM	16.00	10.90	11.20	1.30	0.00	11.20	2.10	1.30	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 2:30 PM	21.00	9.90	14.80	1.40	0.00	14.80	2.50	1.40	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 2:45 PM	17.00	8.40	12.00	1.20	0.00	12.00	2.70	1.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 3:00 PM	13.00	9.00	6.30	1.30	0.00	6.30	3.10	1.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 3:15 PM	12.00	10.40	5.10	1.70	0.00	5.10	1.10	1.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 3:30 PM	22.00	8.30	0.00	1.30	0.00	0.00	1.00	1.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 3:45 PM	16.00	9.70	8.80	1.70	0.00	8.80	0.90	1.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 4:00 PM	21.00	8.70	6.70	1.80	0.00	6.70	1.50	1.80	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 4:15 PM	34.00	8.30	3.80	1.50	0.00	3.80	0.60	1.50	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 4:30 PM	17.00	9.50	0.00	1.70	0.00	0.00	0.60	1.70	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 4:45 PM	13.00	9.90	2.10	1.40	0.00	2.10	0.50	1.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 5:00 PM	23.00	8.60	1.90	1.50	0.00	1.90	0.40	1.50	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 5:15 PM	34.00	8.10	1.90	1.10	0.00	1.90	0.50	1.10	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 5:30 PM	23.00	9.70	1.70	1.30	0.00	1.70	0.00	1.30	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 5:45 PM	15.00	8.90	1.60	1.30	0.00	1.60	0.60	1.30	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 6:00 PM	17.00	9.40	1.60	1.80	0.20	1.60	0.30	1.80	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 6:15 PM	17.00	9.00	1.70	2.30	0.60	1.70	0.40	2.30	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 6:30 PM	18.00	9.40	2.30	1.50	0.00	2.30	0.60	1.50	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 6:45 PM	32.00	7.50	3.40	1.80	0.00	3.40	0.70	1.80	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 7:00 PM	21.00	7.40	3.20	1.90	0.00	3.20	1.00	1.90	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 7:15 PM	27.00	8.20	3.70	1.90	0.00	3.70	0.80	1.90	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 7:30 PM	15.00	8.90	2.80	1.90	0.00	2.80	0.80	1.90	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 7:45 PM	18.00	7.80	2.20	1.60	0.00	2.20	0.80	1.60	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 8:00 PM	22.00	8.30	3.30	2.10	0.00	3.30	0.80	2.10	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 8:15 PM	22.00	6.90	0.00	2.00	0.00	0.00	0.80	2.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 8:30 PM	18.00	8.50	5.20	2.00	0.00	5.20	0.80	2.00	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 8:45 PM	22.00	7.10	5.60	2.30	0.00	5.60	0.80	2.30	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 9:00 PM	9.00	9.20	4.70	2.00	0.00	4.70	0.80	2.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 9:15 PM	13.00	8.20	5.00	2.30	0.00	5.00	0.80	2.30	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 9:30 PM	23.00	6.70	4.90	2.10	0.00	4.90	0.80	2.10	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 9:45 PM	16.00	7.20	5.40	2.70	0.00	5.40	0.80	2.70	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 10:00 PM	3.00	7.10	6.90	3.00	0.00	6.90	0.80	3.00	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 10:15 PM	1.00	6.30	5.60	2.90	0.00	5.60	0.80	2.90	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 10:30 PM	9.00	5.90	5.90	2.40	0.00	5.90	0.80	2.40	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 10:45 PM	0.00	8.30	5.90	3.00	0.00	5.90	0.80	3.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 11:00 PM	3.00	6.70	5.30	2.70	0.00	5.30	0.80	2.70	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 11:15 PM	6.00	7.30	6.00	2.90	0.00	6.00	0.80	2.90	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 11:30 PM	10.00	8.40	6.30	2.70	0.00	6.30	0.80	2.70	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/15 11:45 PM	4.00	8.40	9.10	2.50	0.00	9.10	0.80	2.50	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 12:00 AM	5.00	6.90	9.60	2.50	0.00	9.60	0.80	2.50	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 12:15 AM	19.00	8.40	7.60	2.50	0.00	7.60	0.80	2.50	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 12:30 AM	27.00	6.10	7.50	2.70	0.00	7.50	0.80	2.70	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 12:45 AM	25.00	5.70	15.40	2.70	0.00	15.40	0.80	2.70	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 1:00 AM	37.00	6.00	11.90	2.80	0.00	11.90	0.80	2.80	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 1:15 AM	38.00	6.10	5.10	2.80	0.00	5.10	0.80	2.80	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 1:30 AM	36.00	6.30	3.70	3.90	0.20	3.70	0.80	3.90	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 1:45 AM	38.00	6.40	2.50	5.30	2.80	2.50	0.80	5.30	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 2:00 AM	39.00	6.60	2.40	6.20	3.80	2.40	0.80	6.20	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 2:15 AM	30.00	6.30	2.70	6.40	3.70	2.70	0.80	6.40	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 2:30 AM	34.00	5.90	2.30	7.40	5.10	2.30	0.80	7.40	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 2:45 AM	31.00	6.00	2.70	8.10	5.40	2.70	0.80	8.10	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 3:00 AM	32.00	6.90	2.80	10.30	7.50	2.80	0.80	10.30	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 3:15 AM	31.00	5.70	2.40	11.60	9.20	2.40	0.80	11.60	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 3:30 AM	32.00	5.20	2.50	10.90	8.40	2.50	0.80	10.90	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 3:45 AM	33.00	6.50	2.10	12.40	10.30	2.10	0.80	12.40	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 4:00 AM	29.00	4.90	0.00	11.90	0.00	0.00	0.80	11.90	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 4:15 AM	34.00	4.60	2.30	11.50	9.20	2.30	0.80	11.50	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 4:30 AM	43.00	4.30	2.50	10.50	8.00	2.50	0.00	10.50	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 4:45 AM	47.00	4.60	8.90	13.70	4.80	8.90	0.80	13.70	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 5:00 AM	44.00	3.80	0.00	13.60	0.00	0.00	0.80	13.60	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 5:15 AM	49.00	3.70	3.10	10.30	7.20	3.10	0.80	10.30	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 5:30 AM	52.00	4.30	3.00	10.30	7.30	3.00	0.80	10.30	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 5:45 AM	53.00	4.10	4.40	10.70	6.30	4.40	0.80	10.70	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 6:00 AM	49.00	4.70	8.70	11.70	3.00	8.70	0.80	11.70	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 6:15 AM	57.00	3.50	6.60	10.60	4.00	6.60	0.80	10.60	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 6:30 AM	49.00	4.30	22.30	17.40	0.00	22.30	0.80	17.40	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 6:45 AM	55.00	2.90	20.70	13.70	0.00	20.70	0.80	13.70	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 7:00 AM	59.00	3.60	10.40	12.00	1.60	10.40	0.80	12.00	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 7:15 AM	71.00	4.60	9.10	13.20	4.10	9.10	0.80	13.20	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 7:30 AM	67.00	4.10	9.50	15.70	6.20	9.50	0.80	15.70	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 7:45 AM	94.00	3.40	0.80	9.10	8.30	9.10	0.80	14.30	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 8:00 AM	95.00	1.90	0.80	6.30	5.50	11.80	0.80	14.30	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 8:15 AM	71.00	3.60	9.40	16.50	7.10	9.40	0.80	16.50	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 8:30 AM	72.00	3.50	9.50	12.90	3.40	9.50	0.80	12.90	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/8/15 8:45 AM	83.00	2.10	9.10	12.50	3.40	9.10	0.80	12.50	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 9:00 AM	127.00	2.10	0.80	5.80	5.00	11.50	0.80	12.90	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 9:15 AM	144.00	1.30	0.80	6.10	5.30	12.50	0.80	11.90	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 9:30 AM	134.00	1.60	0.80	7.30	6.50	13.90	0.80	11.90	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 9:45 AM	149.00	2.00	0.80	8.90	8.10	13.20	0.80	11.70	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 10:00 AM	117.00	2.70	0.80	9.20	8.40	14.10	0.80	12.50	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 10:15 AM	92.00	1.70	0.80	10.90	10.10	24.70	0.80	19.00	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 10:30 AM	120.00	1.30	0.80	16.10	15.30	30.30	0.80	20.80	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 10:45 AM	106.00	2.00	0.80	16.10	15.30	36.20	0.80	23.30	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 11:00 AM	63.00	3.40	31.80	18.00	0.00	31.80	0.80	18.00	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 11:15 AM	73.00	2.80	28.10	17.70	0.00	28.10	0.80	17.70	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 11:30 AM	61.00	3.50	32.50	20.20	0.00	32.50	0.80	20.20	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 11:45 AM	88.00	1.40	38.20	23.80	0.00	38.20	0.80	23.80	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 12:00 PM	33.00	3.40	35.80	27.90	0.00	35.80	0.80	27.90	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 12:15 PM	53.00	3.10	25.60	26.40	0.80	25.60	0.80	26.40	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 12:30 PM	36.00	3.30	27.10	26.20	0.00	27.10	0.80	26.20	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 12:45 PM	27.00	3.60	54.80	29.70	0.00	54.80	0.80	29.70	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 1:00 PM	32.00	2.70	40.70	38.70	0.00	40.70	0.80	38.70	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 1:15 PM	15.00	3.30	49.00	37.20	0.00	49.00	0.80	37.20	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 1:30 PM	20.00	3.70	39.10	36.40	0.00	39.10	0.80	36.40	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 1:45 PM	32.00	2.90	27.90	37.40	9.50	27.90	0.80	37.40	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 2:00 PM	87.00	3.40	0.00	34.80	0.00	0.00	0.80	34.80	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 2:15 PM	39.00	4.40	35.50	37.10	1.60	35.50	0.80	37.10	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 2:30 PM	84.00	3.30	28.80	33.70	4.90	28.80	0.80	33.70	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 2:45 PM	107.00	4.20	0.80	15.10	14.30	24.10	0.80	38.20	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 3:00 PM	81.00	3.00	28.70	35.60	6.90	28.70	0.80	35.60	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 3:15 PM	59.00	1.80	27.80	34.30	6.50	27.80	0.80	34.30	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 3:30 PM	27.00	4.70	33.60	40.00	6.40	33.60	0.80	40.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 3:45 PM	37.00	4.00	35.40	32.90	0.00	35.40	0.80	32.90	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 4:00 PM	50.00	3.20	26.10	29.10	3.00	26.10	0.80	29.10	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 4:15 PM	68.00	3.80	30.30	34.20	3.90	30.30	0.80	34.20	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 4:30 PM	50.00	3.20	23.70	32.70	9.00	23.70	0.80	32.70	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 4:45 PM	74.00	3.10	17.80	34.40	16.60	17.80	0.80	34.40	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 5:00 PM	46.00	5.20	30.00	39.70	9.70	30.00	0.80	39.70	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 5:15 PM	67.00	4.20	62.90	61.90	0.00	62.90	0.80	61.90	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 5:30 PM	65.00	2.60	79.00	67.90	0.00	79.00	0.80	67.90	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 5:45 PM	63.00	3.00	70.40	71.90	1.50	70.40	0.80	71.90	44.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 6:00 PM	81.00	2.40	59.20	64.30	5.10	59.20	0.80	64.30	30.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 6:15 PM	90.00	2.20	0.80	25.30	24.50	64.90	0.80	66.00	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 6:30 PM	80.00	3.80	51.00	54.00	3.00	51.00	0.80	54.00	33.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 6:45 PM	74.00	4.20	35.90	48.60	12.70	35.90	0.80	48.60	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 7:00 PM	88.00	2.30	30.90	51.70	20.80	30.90	2.80	51.70	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 7:15 PM	47.00	1.60	27.70	49.00	21.30	27.70	9.90	49.00	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 7:30 PM	66.00	1.10	27.20	51.50	24.30	27.20	13.60	51.50	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 7:45 PM	61.00	1.50	31.50	54.70	23.20	31.50	17.40	54.70	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 8:00 PM	34.00	1.60	32.20	54.70	22.50	32.20	20.00	54.70	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 8:15 PM	36.00	2.30	0.00	58.50	0.00	0.00	21.30	58.50	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 8:30 PM	48.00	1.60	33.80	60.00	26.20	33.80	22.10	60.00	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 8:45 PM	207.00	1.60	62.10	33.80	0.00	33.80	25.00	62.10	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 9:00 PM	101.00	1.80	29.00	15.90	0.00	38.30	29.00	64.90	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 9:15 PM	69.00	3.10	38.80	73.60	34.80	38.80	32.10	73.60	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 9:30 PM	94.00	2.00	38.30	13.70	0.00	30.10	38.30	70.00	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 9:45 PM	114.00	2.80	34.30	15.20	0.00	32.90	34.30	70.60	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 10:00 PM	105.00	3.10	41.60	15.50	0.00	36.20	41.60	68.30	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 10:15 PM	122.00	3.00	41.20	15.50	0.00	36.20	41.20	82.30	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 10:30 PM	107.00	3.30	41.60	15.50	0.00	30.90	41.60	86.00	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 10:45 PM	119.00	3.70	39.40	13.50	0.00	28.10	39.40	75.60	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 11:00 PM	116.00	3.90	36.60	12.50	0.00	25.00	36.60	73.30	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 11:15 PM	111.00	2.20	34.90	13.00	0.00	24.30	34.90	69.10	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 11:30 PM	117.00	2.70	31.90	9.80	0.00	18.20	31.90	60.20	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/15 11:45 PM	104.00	3.70	30.90	8.80	0.00	16.10	30.90	57.80	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 12:00 AM	108.00	2.60	29.60	9.10	0.00	16.30	29.60	51.10	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 12:15 AM	75.00	3.40	15.10	47.90	32.80	15.10	28.80	47.90	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 12:30 AM	63.00	3.90	14.60	48.90	34.30	14.60	28.40	48.90	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 12:45 AM	73.00	2.90	0.00	43.90	0.00	0.00	26.00	43.90	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 1:00 AM	67.00	5.00	14.30	43.10	28.80	14.30	30.60	43.10	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 1:15 AM	57.00	3.40	15.60	47.00	31.40	15.60	31.10	47.00	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 1:30 AM	45.00	4.60	15.80	46.90	31.10	15.80	31.70	46.90	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 1:45 AM	37.00	4.80	18.50	47.40	28.90	18.50	31.60	47.40	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 2:00 AM	26.00	4.60	17.60	40.60	23.00	17.60	31.90	40.60	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 2:15 AM	30.00	5.60	14.30	36.50	22.20	14.30	27.30	36.50	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 2:30 AM	29.00	5.00	22.70	48.70	26.00	22.70	37.90	48.70	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 2:45 AM	31.00	6.80	28.90	49.40	20.50	28.90	34.00	49.40	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 3:00 AM	31.00	6.60	32.40	54.50	22.10	32.40	41.70	54.50	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 3:15 AM	34.00	7.70	21.40	50.60	29.20	21.40	40.40	50.60	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 3:30 AM	0.00	0.00	0.00	0.00	0.00	28.90	36.50	58.00	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 3:45 AM	38.00	5.80	26.90	54.60	27.70	26.90	41.60	54.60	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 4:00 AM	38.00	6.10	30.30	54.20	23.90	30.30	43.60	54.20	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 4:15 AM	24.00	5.60	26.10	60.80	34.70	26.10	41.00	60.80	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 4:30 AM	11.00	7.30	25.60	60.00	34.40	25.60	41.80	60.00	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 4:45 AM	17.00	6.10	25.70	64.90	39.20	25.70	43.60	64.90	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 5:00 AM	15.00	6.10	23.30	57.40	34.10	23.30	40.30	57.40	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 5:15 AM	31.00	6.50	20.40	56.20	35.80	20.40	34.90	56.20	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 5:30 AM	19.00	6.60	19.60	47.70	28.10	19.60	30.50	47.70	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 5:45 AM	356.00	6.70	9.30	26.30	17.00	15.90	26.30	45.60	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 6:00 AM	13.00	7.00	14.20	37.20	23.00	14.20	24.20	37.20	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 6:15 AM	359.00	8.10	9.80	25.10	15.30	14.40	25.10	39.90	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 6:30 AM	5.00	9.30	14.70	38.50	23.80	14.70	24.10	38.50	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 6:45 AM	348.00	7.40	8.10	25.00	16.90	15.00	25.00	31.30	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 7:00 AM	342.00	6.50	7.10	26.60	19.50	22.30	26.60	23.60	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 7:15 AM	344.00	6.30	7.70	25.90	18.20	17.20	25.90	24.40	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 7:30 AM	347.00	5.90	7.80	28.40	20.60	15.10	28.40	23.80	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 7:45 AM	346.00	5.30	9.70	30.10	20.40	16.20	30.10	26.70	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 8:00 AM	332.00	4.70	10.60	30.60	20.00	17.30	30.60	27.20	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 8:15 AM	349.00	6.10	9.50	25.10	15.60	14.80	25.10	23.00	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 8:30 AM	340.00	4.30	8.40	21.40	13.00	12.20	21.40	19.90	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 8:45 AM	332.00	5.00	7.40	19.60	12.20	11.00	19.60	19.80	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 9:00 AM	346.00	6.60	8.20	21.60	13.40	12.10	21.60	20.10	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 9:15 AM	346.00	5.50	8.50	23.70	15.20	13.20	23.70	22.10	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 9:30 AM	344.00	7.00	9.00	25.60	16.60	14.60	25.60	23.80	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 9:45 AM	347.00	7.40	9.30	27.70	18.40	15.90	27.70	24.70	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/9/15 10:00 AM	347.00	8.60	9.30	27.70	18.40	15.90	27.70	24.40	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 10:15 AM	354.00	8.00	9.50	27.50	18.00	15.80	27.50	23.70	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 10:30 AM	352.00	6.70	10.00	26.70	16.70	15.00	26.70	23.20	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 10:45 AM	355.00	6.80	8.20	21.90	13.70	13.20	21.90	20.50	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 11:00 AM	345.00	7.40	6.30	14.90	8.60	8.60	14.90	12.90	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 11:15 AM	339.00	5.60	6.10	12.20	6.10	7.50	12.20	9.40	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 11:30 AM	354.00	6.50	6.90	10.70	3.80	8.90	10.70	8.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 11:45 AM	354.00	5.30	7.40	9.70	2.30	9.80	9.70	7.50	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 12:00 PM	350.00	4.60	7.50	9.20	1.70	9.20	9.20	5.70	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 12:15 PM	348.00	5.30	7.00	8.20	1.20	9.40	8.20	5.20	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 12:30 PM	342.00	4.30	7.10	8.50	1.40	9.60	8.50	5.10	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 12:45 PM	348.00	5.10	7.10	8.60	1.50	9.80	8.60	5.10	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 1:00 PM	346.00	4.40	7.50	8.20	0.70	0.00	8.20	5.10	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 1:15 PM	350.00	4.70	7.70	7.80	0.10	10.40	7.80	4.40	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 1:30 PM	20.00	4.60	11.70	3.90	0.00	11.70	7.50	3.90	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 1:45 PM	35.00	5.50	11.30	3.00	0.00	11.30	6.70	3.00	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 4:30 PM	29.00	3.90	14.20	4.80	0.00	14.20	4.30	4.80	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 6:15 PM	117.00	3.20	12.30	16.80	4.50	30.20	12.30	13.60	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 6:30 PM	114.00	3.60	9.50	24.50	15.00	29.60	9.50	12.60	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 6:45 PM	111.00	3.30	10.60	18.30	7.70	24.00	10.60	14.10	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 7:00 PM	109.00	2.10	9.80	18.30	8.50	21.00	9.80	14.40	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 7:15 PM	107.00	1.80	8.60	18.30	9.70	24.00	8.60	13.30	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 7:30 PM	79.00	2.70	19.40	11.30	0.00	19.40	8.60	11.30	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 7:45 PM	80.00	2.90	19.00	11.40	0.00	19.00	9.00	11.40	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 8:00 PM	118.00	2.50	9.50	12.80	3.30	19.70	9.50	13.50	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 8:15 PM	118.00	2.40	10.50	12.80	2.30	23.10	10.50	19.90	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 8:30 PM	133.00	2.10	10.60	14.70	4.10	23.30	10.60	23.40	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 8:45 PM	173.00	1.60	10.90	14.10	3.20	22.40	10.90	22.10	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 9:00 PM	181.00	1.80	22.20	21.70	0.00	21.70	10.30	22.20	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 9:15 PM	166.00	1.60	11.40	14.10	2.70	22.10	11.40	22.70	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 9:30 PM	179.00	1.80	14.30	14.10	0.00	23.80	14.30	29.40	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 9:45 PM	188.00	1.30	30.20	25.60	0.00	25.60	16.40	30.20	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 10:00 PM	193.00	1.90	31.30	25.50	0.00	25.50	17.50	31.30	18.00	0.00	1.30	1.30	1.30	0.00	0.00	0.00
7/9/15 10:15 PM	183.00	1.60	36.30	33.00	0.00	33.00	19.70	36.30	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 10:30 PM	185.00	1.60	40.80	34.70	0.00	34.70	23.00	40.80	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 10:45 PM	188.00	1.60	45.30	33.80	0.00	33.80	25.20	45.30	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 11:00 PM	197.00	1.90	48.20	34.50	0.00	34.50	25.40	48.20	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 11:15 PM	191.00	1.70	50.10	34.00	0.00	34.00	27.10	50.10	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 11:30 PM	203.00	1.30	52.60	35.90	0.00	35.90	31.10	52.60	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/15 11:45 PM	196.00	1.40	56.30	35.10	0.00	35.10	30.80	56.30	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 12:00 AM	197.00	1.30	57.80	35.20	0.00	35.20	32.20	57.80	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 12:15 AM	204.00	1.40	58.60	36.80	0.00	36.80	33.00	58.60	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 12:30 AM	207.00	1.30	59.70	36.20	0.00	36.20	33.40	59.70	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 12:45 AM	215.00	1.80	64.50	36.50	0.00	36.50	34.70	64.50	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 1:00 AM	196.00	1.70	69.20	36.00	0.00	36.00	34.80	69.20	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 1:15 AM	202.00	2.00	64.60	35.40	0.00	35.40	36.20	64.60	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 1:30 AM	204.00	2.10	63.30	35.50	0.00	35.50	37.90	63.30	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 1:45 AM	204.00	1.60	65.10	34.50	0.00	34.50	41.30	65.10	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 2:00 AM	201.00	1.60	69.30	34.00	0.00	34.00	42.80	69.30	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 2:15 AM	217.00	1.40	71.20	34.50	0.00	34.50	46.30	71.20	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 2:30 AM	217.00	1.60	78.40	35.40	0.00	35.40	55.20	78.40	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 2:45 AM	218.00	2.30	81.30	35.40	0.00	35.40	57.80	81.30	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 3:00 AM	218.00	1.60	89.10	34.30	0.00	34.30	59.70	89.10	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 3:15 AM	239.00	1.60	89.50	34.30	0.00	34.30	61.70	89.50	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 3:30 AM	227.00	1.50	97.60	30.60	0.00	30.60	62.00	97.60	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 3:45 AM	234.00	1.50	98.50	30.60	0.00	30.60	62.70	98.50	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 4:00 AM	217.00	1.40	93.20	27.40	0.00	27.40	61.90	93.20	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 4:15 AM	228.00	1.20	93.20	26.60	0.00	26.60	61.80	93.20	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 4:30 AM	217.00	1.60	91.10	25.10	0.00	25.10	58.70	91.10	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 4:45 AM	223.00	1.30	88.50	25.10	0.00	25.10	57.60	88.50	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 5:00 AM	216.00	1.70	88.30	25.10	0.00	25.10	57.60	88.30	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 5:15 AM	217.00	1.70	82.30	25.10	0.00	25.10	56.20	82.30	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 5:30 AM	228.00	1.70	82.60	25.10	0.00	25.10	54.80	82.60	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 5:45 AM	218.00	1.20	81.40	23.10	0.00	23.10	52.40	81.40	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 6:00 AM	231.00	1.30	81.40	23.10	0.00	23.10	52.40	81.40	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 6:15 AM	222.00	1.60	80.20	23.10	0.00	23.10	52.20	80.20	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 6:30 AM	220.00	1.60	80.70	23.10	0.00	23.10	51.40	80.70	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 6:45 AM	211.00	1.50	81.50	23.10	0.00	23.10	51.40	81.50	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 7:00 AM	216.00	1.40	75.90	23.10	0.00	23.10	49.50	75.90	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 7:15 AM	223.00	1.90	75.00	23.10	0.00	23.10	50.00	75.00	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 7:30 AM	224.00	2.00	72.00	23.10	0.00	23.10	50.10	72.00	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 7:45 AM	222.00	1.60	73.60	21.40	0.00	21.40	51.20	73.60	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 8:00 AM	236.00	1.80	73.60	21.40	0.00	21.40	0.00	73.60	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 8:15 AM	239.00	1.30	74.50	21.40	0.00	21.40	51.70	74.50	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 8:30 AM	224.00	1.00	73.60	21.40	0.00	21.40	49.70	73.60	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 8:45 AM	241.00	1.40	50.90	21.40	0.00	21.40	40.40	50.90	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 9:00 AM	228.00	1.10	44.30	27.10	0.00	27.10	36.30	44.30	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 9:15 AM	306.00	1.40	18.50	34.70	16.20	0.00	34.70	38.00	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 9:30 AM	340.00	1.50	18.50	30.60	12.10	27.30	30.60	35.70	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 9:45 AM	346.00	1.40	18.50	29.40	10.90	30.70	29.40	35.70	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 10:00 AM	307.00	1.00	18.50	26.70	8.20	30.10	26.70	26.80	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 10:15 AM	34.00	4.50	29.30	24.30	0.00	29.30	26.20	24.30	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 10:30 AM	53.00	3.40	33.80	21.80	0.00	33.80	25.50	21.80	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 10:45 AM	41.00	1.90	28.50	16.50	0.00	28.50	23.90	16.50	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 11:00 AM	345.00	3.50	14.80	22.30	7.50	32.00	22.30	12.30	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 11:15 AM	348.00	3.20	14.90	12.20	0.00	20.00	12.20	6.00	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 11:30 AM	350.00	2.50	14.80	9.70	0.00	13.60	9.70	6.20	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 11:45 AM	354.00	1.60	10.30	9.20	0.00	16.00	9.20	5.60	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 12:00 PM	348.00	1.60	10.40	10.20	0.00	16.50	10.20	5.30	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 12:15 PM	347.00	1.50	10.10	11.40	1.30	18.50	11.40	5.20	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 12:30 PM	342.00	1.70	10.60	11.60	1.00	18.40	11.60	5.90	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 12:45 PM	299.00	1.30	10.80	14.70	3.90	30.90	14.70	5.50	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 1:00 PM	6.00	2.50	30.60	5.80	0.00	30.60	13.80	5.80	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 1:15 PM	16.00	1.90	29.20	5.90	0.00	29.20	107.10	5.90	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 1:30 PM	357.00	3.20	12.30	17.90	5.60	22.20	17.90	6.40	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 1:45 PM	353.00	2.80	13.30	19.30	6.00	26.90	19.30	6.50	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 2:00 PM	6.00	2.60	24.60	5.90	0.00	24.60	18.90	5.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 2:15 PM	27.00	4.50	13.30	3.70	0.00	13.30	13.20	3.70	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 2:30 PM	35.00	4.20	13.00	2.90	0.00	13.00	10.40	2.90	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 2:45 PM	49.00	4.30	17.20	2.60	0.00	17.20	11.40	2.60	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 3:00 PM	25.00	4.80	22.80	2.70	0.00	22.80	12.40	2.70	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/10/15 3:15 PM	64.00	5.10	15.60	2.50	0.00	15.60	10.30	2.50	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 3:30 PM	20.00	4.90	18.20	3.00	0.00	18.20	8.20	3.00	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 3:45 PM	24.00	4.40	27.90	4.40	0.00	27.90	9.70	4.40	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 4:00 PM	54.00	4.80	21.60	3.50	0.00	21.60	0.00	3.50	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 4:15 PM	37.00	5.90	21.60	3.70	0.00	21.60	7.70	3.70	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 4:30 PM	89.00	4.10	20.80	4.20	0.00	20.80	7.80	4.20	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 4:45 PM	47.00	4.60	22.00	4.30	0.00	22.00	9.00	4.30	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 5:00 PM	107.00	3.50	7.90	22.70	14.80	15.30	7.90	3.60	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 5:15 PM	87.00	4.60	17.80	4.10	0.00	17.80	8.00	4.10	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 5:30 PM	86.00	2.50	16.50	3.80	0.00	16.50	13.00	3.80	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 5:45 PM	68.00	3.00	15.80	4.20	0.00	15.80	8.10	4.20	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 6:00 PM	95.00	1.80	13.30	16.00	2.70	15.70	13.30	5.70	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 6:15 PM	77.00	2.10	20.00	7.10	0.00	20.00	13.50	7.10	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 6:30 PM	117.00	3.30	15.40	16.70	1.30	25.80	15.40	7.80	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 6:45 PM	99.00	2.50	15.60	16.70	1.10	30.00	15.60	9.50	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 7:00 PM	112.00	1.50	14.10	16.70	2.60	29.50	14.10	10.20	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 7:15 PM	129.00	2.80	15.80	16.70	0.90	29.20	15.80	11.20	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 7:30 PM	125.00	2.40	16.90	16.70	0.00	28.20	16.90	11.20	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 7:45 PM	126.00	2.30	15.50	16.70	1.20	28.80	15.50	10.80	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 8:00 PM	140.00	1.70	12.90	15.00	2.10	19.20	12.90	10.30	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 8:15 PM	179.00	0.30	12.10	13.00	0.90	16.20	12.10	11.80	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 8:30 PM	109.00	1.10	9.00	12.90	3.90	16.20	9.00	9.90	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 8:45 PM	223.00	1.00	9.40	17.70	8.30	17.70	13.50	9.40	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 9:00 PM	182.00	0.80	11.50	18.00	6.50	18.00	9.20	11.50	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 9:15 PM	150.00	1.10	12.60	15.50	2.90	27.30	12.60	13.30	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 9:30 PM	114.00	1.40	15.80	18.10	2.30	24.40	15.80	15.10	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 9:45 PM	142.00	1.50	15.90	15.90	0.00	19.80	15.90	17.00	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 10:00 PM	197.00	1.10	18.20	29.10	10.90	29.10	19.80	18.20	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 10:15 PM	222.00	0.90	18.20	28.60	10.40	28.60	20.90	18.20	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 10:30 PM	172.00	0.60	20.70	18.90	0.00	25.90	20.70	18.20	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 10:45 PM	242.00	1.20	20.00	25.60	5.60	25.60	20.60	20.00	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 11:00 PM	211.00	0.80	20.70	30.20	9.50	30.20	20.20	20.70	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 11:15 PM	214.00	1.00	25.50	29.50	4.00	29.50	21.60	25.50	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 11:30 PM	205.00	1.20	29.10	33.10	4.00	33.10	25.60	29.10	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/15 11:45 PM	228.00	1.10	35.60	33.00	0.00	33.00	26.20	35.60	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 12:00 AM	190.00	0.60	39.90	31.30	0.00	31.30	27.90	39.90	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 12:15 AM	181.00	0.50	46.00	32.80	0.00	32.80	33.80	46.00	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 12:30 AM	178.00	1.20	36.00	18.40	0.00	31.90	36.00	46.00	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 12:45 AM	212.00	0.80	48.00	33.40	0.00	33.40	38.90	48.00	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 1:00 AM	231.00	1.80	48.70	36.50	0.00	36.50	38.70	48.70	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 1:15 AM	214.00	1.00	48.80	37.00	0.00	37.00	42.10	48.80	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 1:30 AM	209.00	1.20	44.10	40.00	0.00	40.00	46.10	44.10	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 1:45 AM	211.00	1.20	47.70	0.00	0.00	0.00	45.70	47.70	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 2:00 AM	211.00	0.50	51.10	39.70	0.00	39.70	45.10	51.10	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 2:15 AM	159.00	0.80	52.20	22.30	0.00	38.20	52.20	57.00	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 2:30 AM	159.00	1.20	54.70	23.80	0.00	41.60	54.70	59.40	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 2:45 AM	152.00	1.00	51.80	23.70	0.00	40.90	51.80	59.80	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 3:00 AM	190.00	1.40	52.70	38.60	0.00	38.60	47.70	52.70	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 3:15 AM	202.00	0.60	54.20	38.30	0.00	38.30	44.80	54.20	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 3:30 AM	191.00	0.60	52.40	32.60	0.00	32.60	49.00	52.40	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 3:45 AM	160.00	0.60	50.00	24.60	0.00	40.20	50.00	49.50	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 4:00 AM	185.00	0.90	52.70	39.80	0.00	39.80	51.70	52.70	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 4:15 AM	143.00	0.70	53.50	25.10	0.00	42.60	53.50	54.50	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 4:30 AM	189.00	0.90	53.10	42.70	0.00	42.70	58.20	53.10	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 4:45 AM	205.00	0.70	59.20	39.40	0.00	39.40	58.00	59.20	24.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 5:00 AM	101.00	0.90	59.10	25.30	0.00	42.60	59.10	59.30	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 5:15 AM	137.00	1.00	58.80	25.50	0.00	43.20	58.80	65.50	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 5:30 AM	170.00	1.20	57.30	26.40	0.00	41.40	57.30	62.70	26.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 5:45 AM	168.00	1.30	58.30	26.00	0.00	42.40	58.30	67.30	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 6:00 AM	169.00	1.20	58.90	25.40	0.00	42.50	58.90	64.80	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 6:15 AM	189.00	1.00	66.00	39.70	0.00	39.70	58.60	66.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 6:30 AM	197.00	0.90	62.50	38.70	0.00	38.70	56.50	62.50	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 6:45 AM	0.00	0.00	0.00	0.00	0.00	36.70	53.10	61.40	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 7:00 AM	216.00	1.50	61.70	40.60	0.00	40.60	54.40	61.70	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 7:15 AM	224.00	2.00	56.20	36.90	0.00	36.90	52.60	56.20	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 7:30 AM	129.00	0.80	49.10	22.40	0.00	37.00	49.10	49.40	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 7:45 AM	159.00	1.50	47.50	21.90	0.00	36.00	47.50	47.30	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 8:00 AM	152.00	1.80	44.90	20.10	0.00	35.10	44.90	42.50	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 8:15 AM	165.00	1.70	40.90	19.00	0.00	33.00	40.90	41.20	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 8:30 AM	166.00	2.10	38.20	17.00	0.00	29.20	38.20	37.90	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 8:45 AM	170.00	1.80	38.00	18.80	0.00	29.00	38.00	36.80	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 9:00 AM	205.00	1.90	34.10	30.60	0.00	30.60	33.20	34.10	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 9:15 AM	185.00	1.90	33.30	30.60	0.00	30.60	33.20	33.30	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 9:30 AM	197.00	2.30	30.20	25.30	0.00	25.30	29.50	30.20	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 9:45 AM	191.00	1.80	28.70	25.90	0.00	25.90	28.30	28.70	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 10:00 AM	202.00	2.60	28.10	28.50	0.40	28.50	29.60	28.10	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 10:15 AM	204.00	2.80	26.90	25.60	0.00	25.60	26.60	26.90	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 10:30 AM	219.00	2.80	21.60	22.60	1.00	22.60	22.50	21.60	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 10:45 AM	182.00	4.30	21.60	22.10	0.50	22.10	21.00	21.60	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 11:00 AM	226.00	3.80	19.80	21.10	1.30	21.10	19.30	19.80	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 11:15 AM	207.00	3.30	20.00	19.70	0.00	19.70	19.80	20.00	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 11:30 AM	210.00	3.50	19.80	21.10	1.30	21.10	22.10	19.80	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 11:45 AM	199.00	1.80	21.40	22.80	1.40	22.80	21.10	21.40	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 12:00 PM	194.00	2.40	21.70	21.00	0.00	21.00	20.70	21.70	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 12:15 PM	230.00	1.40	20.00	19.80	0.00	19.80	20.20	20.00	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 12:30 PM	173.00	4.80	19.60	12.70	0.00	20.10	19.60	19.40	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 12:45 PM	198.00	3.50	17.80	18.10	0.30	18.10	17.90	17.80	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 1:00 PM	208.00	2.40	17.30	18.30	1.00	18.30	18.20	17.30	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 1:15 PM	156.00	3.90	17.70	12.60	0.00	19.80	17.70	16.90	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 1:30 PM	203.00	3.40	17.40	19.20	1.80	19.20	17.30	17.40	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 1:45 PM	171.00	2.20	16.50	12.80	0.00	18.00	16.50	15.90	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 2:00 PM	210.00	1.80	15.90	18.80	2.90	18.80	16.90	15.90	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 2:15 PM	138.00	3.90	15.60	12.30	0.00	18.10	15.60	15.20	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 2:30 PM	175.00	3.70	15.20	12.50	0.00	18.50	15.20	14.00	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 2:45 PM	161.00	3.50	15.60	12.90	0.00	19.60	15.60	16.70	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 3:00 PM	157.00	3.20	15.40	13.00	0.00	19.00	15.40	16.40	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 3:15 PM	189.00	3.50	15.60	18.60	3.00	18.60	14.40	15.60	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 3:30 PM	174.00	3.60	16.90	12.80	0.00	18.00	16.90	17.80	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 3:45 PM	158.00	5.70	16.50	13.40	0.00	17.70	16.50	18.10	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 4:00 PM	180.00	3.70	18.50	17.70	0.00	17.70	15.80	18.50	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 4:15 PM	192.00	4.10	18.40	19.30	0.90	19.30	17.80	18.40	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/11/15 4:30 PM	163.00	3.30	17.40	12.70	0.00	18.60	17.40	17.10	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 4:45 PM	146.00	3.40	21.60	13.70	0.00	20.80	21.60	20.00	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 5:00 PM	130.00	3.00	19.80	13.90	0.00	20.40	19.80	20.20	13.90	0.00	0.00	0.00	1.00	0.00	0.00	0.00
7/11/15 5:15 PM	120.00	2.90	27.90	15.80	0.00	22.60	27.90	29.10	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 5:30 PM	112.00	2.90	29.60	14.60	0.00	21.50	29.60	33.40	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 5:45 PM	120.00	4.20	27.00	14.00	0.00	18.70	27.00	30.40	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 6:00 PM	168.00	2.60	30.80	15.10	0.00	20.70	30.80	32.60	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 6:15 PM	160.00	2.40	29.40	14.70	0.00	18.80	29.40	39.60	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 6:30 PM	126.00	3.70	32.70	14.50	0.00	19.40	32.70	44.30	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 6:45 PM	153.00	2.90	34.40	14.60	0.00	19.80	34.40	44.30	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 7:00 PM	141.00	2.10	35.30	15.40	0.00	20.30	35.30	45.10	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 7:15 PM	152.00	3.00	35.90	15.80	0.00	21.20	35.90	44.40	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 7:30 PM	146.00	2.20	39.20	17.20	0.00	23.00	39.20	44.90	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 7:45 PM	135.00	3.60	38.20	15.50	0.00	22.70	38.20	48.40	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 8:00 PM	143.00	4.60	38.30	15.50	0.00	22.10	38.30	47.20	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 8:15 PM	153.00	2.80	40.40	15.20	0.00	22.60	40.40	48.80	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 8:30 PM	152.00	2.50	43.60	14.60	0.00	21.50	43.60	54.20	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 8:45 PM	168.00	2.90	42.60	14.10	0.00	20.70	42.60	53.60	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 9:00 PM	168.00	4.00	43.30	14.00	0.00	21.30	43.30	55.80	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 9:15 PM	183.00	2.90	54.60	21.00	0.00	21.00	44.10	54.60	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 9:30 PM	169.00	4.40	41.80	14.90	0.00	20.90	41.80	50.80	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 9:45 PM	154.00	3.50	40.90	14.40	0.00	21.20	40.90	53.10	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 10:00 PM	142.00	3.00	38.70	14.20	0.00	19.30	38.70	51.00	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 10:15 PM	152.00	2.10	34.70	12.50	0.00	17.50	34.70	45.10	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 10:30 PM	151.00	2.90	33.40	11.10	0.00	17.70	33.40	42.50	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 10:45 PM	170.00	1.70	32.70	11.30	0.00	15.20	32.70	45.50	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 11:00 PM	163.00	3.30	36.40	10.50	0.00	17.20	36.40	55.80	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 11:15 PM	167.00	3.20	38.30	12.30	0.00	16.80	38.30	56.70	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 11:30 PM	163.00	2.30	36.60	11.70	0.00	15.90	36.60	58.80	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/15 11:45 PM	162.00	2.80	36.10	11.70	0.00	18.00	36.10	55.30	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 12:00 AM	181.00	2.80	53.60	18.70	0.00	18.70	38.90	53.60	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 12:15 AM	148.00	3.00	37.30	12.40	0.00	18.50	37.30	53.60	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 12:30 AM	167.00	3.20	35.70	11.60	0.00	16.60	35.70	55.10	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 12:45 AM	136.00	2.50	37.20	11.50	0.00	16.80	37.20	63.30	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 1:00 AM	137.00	2.00	38.20	11.10	0.00	18.50	38.20	66.80	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 1:15 AM	0.00	0.00	0.00	0.00	0.00	18.00	36.10	69.70	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 1:30 AM	152.00	2.00	35.50	10.00	0.00	15.40	35.50	69.80	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 1:45 AM	127.00	2.70	33.40	9.40	0.00	16.00	33.40	61.50	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 2:00 AM	129.00	2.00	36.40	10.70	0.00	13.70	36.40	74.90	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 2:15 AM	120.00	1.60	34.30	9.50	0.00	13.80	34.30	68.40	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 2:30 AM	121.00	1.70	35.00	10.00	0.00	14.50	35.00	72.70	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 2:45 AM	113.00	1.70	35.30	10.50	0.00	14.20	35.30	86.10	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 3:00 AM	121.00	2.20	35.30	10.00	0.00	14.40	35.30	80.10	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 3:15 AM	98.00	2.30	38.40	9.90	0.00	14.50	38.40	90.90	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 3:30 AM	128.00	1.60	40.20	11.00	0.00	15.80	40.20	94.20	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 3:45 AM	134.00	0.90	39.30	10.80	0.00	14.80	39.30	89.00	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 4:00 AM	120.00	1.40	37.00	10.50	0.00	14.70	37.00	77.80	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 4:15 AM	87.00	0.90	14.40	75.20	60.80	14.40	38.80	75.20	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 4:30 AM	113.00	1.40	30.60	9.30	0.00	13.40	30.60	72.90	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 4:45 AM	141.00	1.20	30.70	9.20	0.00	13.20	30.70	62.90	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 5:00 AM	144.00	1.80	29.20	8.60	0.00	12.10	29.20	72.20	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 5:15 AM	117.00	1.60	26.50	8.60	0.00	11.70	26.50	69.70	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 5:30 AM	32.00	1.40	11.40	63.20	51.80	11.40	50.70	63.20	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 5:45 AM	77.00	1.30	11.10	48.90	37.80	11.10	22.00	48.90	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 6:00 AM	125.00	2.40	21.30	9.10	0.00	12.50	21.30	42.40	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 6:15 AM	127.00	1.80	20.50	9.20	0.00	13.20	20.50	39.40	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 6:30 AM	120.00	1.40	21.80	8.80	0.00	13.30	21.80	34.80	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 6:45 AM	53.00	1.90	11.80	35.80	24.00	11.80	21.50	35.80	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 7:00 AM	96.00	0.60	18.00	8.80	0.00	11.40	18.00	28.80	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 7:15 AM	70.00	2.00	11.60	24.40	12.80	11.60	17.10	24.40	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 7:30 AM	89.00	2.00	11.50	20.20	8.70	11.50	15.90	20.20	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 7:45 AM	119.00	1.90	16.10	8.10	0.00	11.60	16.10	22.70	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 8:00 AM	120.00	2.50	15.60	10.00	0.00	12.00	15.60	22.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 8:15 AM	101.00	1.30	15.60	10.60	0.00	15.30	15.60	22.00	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 8:30 AM	88.00	1.70	12.70	19.30	6.60	12.70	14.50	19.30	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 8:45 AM	82.00	1.80	11.90	18.60	6.70	11.90	15.00	18.60	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 9:00 AM	62.00	1.80	12.40	19.30	6.90	12.40	14.20	19.30	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 9:15 AM	130.00	2.30	14.30	9.10	0.00	12.30	14.30	16.70	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 9:30 AM	119.00	2.60	13.30	9.80	0.00	12.20	13.30	14.50	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 9:45 AM	87.00	2.40	13.20	14.70	1.50	13.20	13.10	14.70	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 10:00 AM	30.00	1.30	15.40	10.60	0.00	15.40	11.50	10.60	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 10:15 AM	328.00	1.50	12.40	11.60	0.00	18.90	11.60	8.30	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 10:30 AM	312.00	2.90	13.80	11.60	0.00	21.60	11.60	9.10	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 10:45 AM	9.00	1.70	21.10	7.60	0.00	21.10	12.40	7.60	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 11:00 AM	34.00	3.70	18.90	6.40	0.00	18.90	11.90	6.40	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 11:15 AM	7.00	3.00	24.00	6.20	0.00	24.00	16.30	6.20	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 11:30 AM	17.00	3.70	32.60	5.70	0.00	32.60	14.70	5.70	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 11:45 AM	49.00	2.70	27.50	7.10	0.00	27.50	23.80	7.10	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 12:00 PM	38.00	2.70	0.00	6.40	0.00	0.00	19.40	6.40	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 12:15 PM	18.00	4.50	23.10	6.90	0.00	23.10	12.70	6.90	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 12:30 PM	18.00	4.30	28.40	9.80	0.00	28.40	21.60	9.80	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 12:45 PM	48.00	3.10	26.50	12.60	0.00	26.50	18.30	12.60	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 1:00 PM	27.00	2.40	24.80	13.40	0.00	24.80	18.50	13.40	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 1:15 PM	23.00	3.50	22.60	15.20	0.00	22.60	21.80	15.20	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 1:30 PM	19.00	4.00	27.30	19.30	0.00	27.30	24.70	19.30	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 1:45 PM	26.00	3.80	31.40	20.90	0.00	31.40	25.30	20.90	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 2:00 PM	44.00	3.60	32.60	24.90	0.00	32.60	25.40	24.90	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 2:15 PM	82.00	3.80	31.50	24.10	0.00	31.50	22.80	24.10	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 2:30 PM	96.00	4.50	24.40	17.50	0.00	31.60	24.40	24.80	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 2:45 PM	101.00	3.80	19.10	16.50	0.00	27.10	19.10	27.10	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 3:00 PM	85.00	3.50	23.30	24.30	1.00	23.30	19.00	24.30	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 3:15 PM	111.00	4.10	19.10	15.00	0.00	22.10	19.10	22.60	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 3:30 PM	92.00	3.30	15.70	17.10	1.40	29.60	15.70	21.50	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 3:45 PM	87.00	3.50	26.20	17.30	0.00	26.20	13.30	17.30	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 4:00 PM	83.00	4.00	31.00	15.00	0.00	31.00	13.10	15.00	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 4:15 PM	90.00	3.20	12.70	17.80	5.10	29.90	12.70	14.60	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 4:30 PM	107.00	4.30	12.50	16.20	3.70	20.40	12.50	14.40	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 4:45 PM	95.00	3.00	13.20	21.20	8.00	30.10	13.20	14.10	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 5:00 PM	104.00	3.10	13.10	21.00	7.90	37.70	13.10	14.30	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 5:15 PM	74.00	3.20	36.70	15.80	0.00	36.70	14.50	15.80	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 5:30 PM	75.00	3.80	33.70	16.40	0.00	33.70	14.50	16.40	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/12/15 5:45 PM	77.00	4.40	20.40	17.20	0.00	20.40	13.80	17.20	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 6:00 PM	84.00	3.80	23.60	16.30	0.00	23.60	14.30	16.30	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 6:15 PM	118.00	4.30	13.80	14.60	0.80	17.50	13.80	17.90	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 6:30 PM	98.00	3.20	12.80	14.80	2.00	17.60	12.80	15.40	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 6:45 PM	90.00	4.60	12.20	18.30	6.10	18.30	12.20	15.40	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 7:00 PM	84.00	2.80	22.00	17.60	0.00	22.00	12.20	17.60	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 7:15 PM	107.00	3.40	13.90	17.50	3.60	23.40	13.90	16.80	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 7:30 PM	111.00	3.30	13.80	21.30	7.50	26.20	13.80	17.80	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 7:45 PM	107.00	2.40	13.60	17.80	4.20	22.30	13.60	17.20	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 8:00 PM	114.00	3.60	14.80	15.10	0.30	20.60	14.80	18.40	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 8:15 PM	120.00	3.10	18.40	13.90	0.00	18.00	18.40	22.50	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 8:30 PM	129.00	2.70	20.30	12.90	0.00	17.70	20.30	26.00	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 8:45 PM	137.00	1.60	22.30	13.40	0.00	19.30	22.30	30.20	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 9:00 PM	138.00	1.30	26.00	13.60	0.00	19.80	26.00	31.90	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 9:15 PM	152.00	1.20	26.00	14.70	0.00	21.30	26.00	36.50	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 9:30 PM	121.00	2.00	35.50	15.00	0.00	21.40	35.50	38.10	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 9:45 PM	141.00	2.70	36.30	16.80	0.00	24.80	36.30	47.50	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 10:00 PM	154.00	3.20	33.10	19.30	0.00	32.80	33.10	50.30	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 10:15 PM	143.00	3.30	39.90	20.90	0.00	34.40	39.90	63.80	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 10:30 PM	142.00	3.00	41.30	21.90	0.00	35.20	41.30	66.10	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 10:45 PM	144.00	3.50	32.70	17.40	0.00	27.20	32.70	62.70	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 11:00 PM	155.00	4.10	23.60	10.30	0.00	18.60	23.60	60.50	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 11:15 PM	149.00	3.60	20.60	8.70	0.00	12.20	20.60	58.10	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 11:30 PM	157.00	3.50	23.20	9.70	0.00	9.30	23.20	52.30	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/15 11:45 PM	166.00	4.00	17.70	7.20	0.00	9.90	17.70	52.70	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 12:00 AM	159.00	3.40	18.50	7.30	0.00	9.50	18.50	49.00	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 12:15 AM	159.00	3.70	20.60	8.30	0.00	9.20	20.60	44.50	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 12:30 AM	171.00	3.60	19.70	8.40	0.00	8.10	19.70	36.00	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 12:45 AM	173.00	5.00	15.70	7.00	0.00	9.70	15.70	31.20	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 1:00 AM	157.00	3.90	12.30	6.20	0.00	11.30	12.30	25.40	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 1:15 AM	158.00	3.10	11.30	5.90	0.00	9.50	11.30	22.10	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 1:30 AM	160.00	4.30	10.60	6.00	0.00	7.60	10.60	20.40	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 1:45 AM	154.00	4.30	10.50	5.80	0.00	6.20	10.50	19.50	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 2:00 AM	151.00	3.60	9.80	5.60	0.00	6.70	9.80	17.70	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 2:15 AM	153.00	3.40	9.60	5.60	0.00	5.50	9.60	16.30	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 2:30 AM	166.00	3.70	9.50	5.60	0.00	5.60	9.50	16.10	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 2:45 AM	172.00	4.30	9.60	5.60	0.00	6.10	9.60	16.30	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 3:00 AM	180.00	4.00	16.30	6.40	0.00	6.40	9.80	16.30	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 3:15 AM	165.00	5.30	10.30	6.60	0.00	10.70	10.30	16.70	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 3:30 AM	182.00	4.30	16.90	6.10	0.00	6.10	9.80	16.90	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 3:45 AM	171.00	3.80	9.80	5.50	0.00	6.00	9.80	16.70	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 4:00 AM	171.00	5.40	9.60	5.50	0.00	5.60	9.60	16.40	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 4:15 AM	167.00	5.20	9.30	5.50	0.00	6.30	9.30	15.70	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 4:30 AM	175.00	3.70	9.00	5.70	0.00	0.00	9.00	15.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 4:45 AM	170.00	5.30	8.20	5.20	0.00	5.20	8.20	13.80	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 5:00 AM	167.00	4.40	8.00	5.20	0.00	5.60	8.00	12.90	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 5:15 AM	187.00	5.10	12.50	5.40	0.00	5.40	7.60	12.50	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 5:30 AM	184.00	4.10	12.00	6.10	0.00	6.10	7.40	12.00	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 5:45 AM	189.00	6.60	10.90	5.80	0.00	5.80	7.50	10.90	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 6:00 AM	180.00	4.80	11.10	5.80	0.00	5.80	7.40	11.10	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 6:15 AM	185.00	5.00	10.60	6.60	0.00	6.60	7.30	10.60	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 6:30 AM	193.00	4.70	10.40	7.20	0.00	7.20	7.40	10.40	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 6:45 AM	194.00	4.50	10.20	7.10	0.00	7.10	7.80	10.20	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 7:00 AM	199.00	4.80	10.30	7.00	0.00	7.00	7.80	10.30	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 7:15 AM	274.00	9.80	5.60	8.00	2.40	7.20	8.00	10.90	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 7:30 AM	12.00	10.40	7.40	11.80	4.40	7.40	8.40	11.80	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 7:45 AM	37.00	5.10	8.60	15.20	6.60	8.60	9.80	15.20	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 8:00 AM	84.00	2.80	8.90	18.10	9.20	8.90	11.20	18.10	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 8:15 AM	121.00	4.60	11.60	6.10	0.00	9.50	11.60	19.50	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 8:30 AM	137.00	5.20	13.80	6.80	0.00	13.00	13.80	21.40	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 8:45 AM	152.00	4.30	9.90	8.20	0.00	5.50	9.90	27.30	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 9:00 AM	138.00	3.00	10.70	7.50	0.00	4.90	10.70	21.80	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 9:15 AM	167.00	3.20	29.90	6.00	0.00	12.10	29.90	28.40	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 9:30 AM	181.00	3.40	24.20	9.20	0.00	9.20	12.50	24.20	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 9:45 AM	186.00	3.10	24.10	13.10	0.00	13.10	14.60	24.10	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 10:00 AM	169.00	3.40	14.40	6.30	0.00	8.70	14.40	28.30	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 10:15 AM	164.00	5.50	12.80	4.70	0.00	7.50	12.80	28.60	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 10:30 AM	176.00	3.70	12.50	4.90	0.00	9.80	12.50	25.40	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 10:45 AM	179.00	4.10	14.00	4.90	0.00	0.00	14.00	28.40	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 11:00 AM	187.00	5.50	24.90	5.70	0.00	5.70	12.50	24.90	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 11:15 AM	183.00	5.60	17.50	0.00	0.00	0.00	9.70	17.50	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 11:30 AM	178.00	6.00	9.10	3.80	0.00	7.20	9.10	15.10	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 11:45 AM	171.00	5.00	7.70	4.00	0.00	6.10	7.70	12.50	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 12:00 PM	179.00	5.40	6.60	3.80	0.00	5.90	6.60	10.40	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 12:15 PM	192.00	7.80	7.00	5.00	0.00	5.00	5.50	7.00	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 12:30 PM	174.00	5.80	4.70	3.90	0.00	0.00	4.70	4.70	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 12:45 PM	184.00	8.10	3.00	5.50	2.50	5.50	4.00	3.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 1:00 PM	218.00	7.60	2.40	5.20	2.80	5.20	3.30	2.40	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 1:15 PM	204.00	5.30	2.20	5.40	3.20	5.40	2.90	2.20	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 1:30 PM	208.00	5.10	2.30	4.50	2.20	4.50	2.70	2.30	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 1:45 PM	203.00	6.50	2.30	5.50	3.20	5.50	2.90	2.30	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 2:00 PM	200.00	6.90	2.20	5.10	2.90	5.10	3.50	2.20	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 2:15 PM	181.00	5.80	2.30	0.00	0.00	0.00	3.00	2.30	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 2:30 PM	182.00	4.60	2.40	5.10	2.70	5.10	3.10	2.40	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 2:45 PM	206.00	4.90	2.30	4.50	2.20	4.50	3.40	2.30	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 3:00 PM	206.00	5.60	2.20	4.60	2.40	4.60	3.30	2.20	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 3:15 PM	219.00	5.40	2.50	4.80	2.30	4.80	3.20	2.50	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 3:30 PM	207.00	4.70	2.40	0.00	0.00	0.00	3.20	2.40	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 3:45 PM	209.00	5.60	2.40	0.00	0.00	0.00	3.20	2.40	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 4:00 PM	231.00	4.90	2.90	7.00	4.10	7.00	4.50	2.90	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 4:15 PM	243.00	6.90	3.40	6.80	3.40	6.80	4.50	3.40	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 4:30 PM	206.00	4.60	3.50	8.40	4.90	8.40	0.00	3.50	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 4:45 PM	223.00	3.90	3.80	10.10	6.30	10.10	9.10	3.80	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 5:00 PM	196.00	6.20	8.30	14.40	6.10	14.40	8.70	8.30	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 5:15 PM	194.00	5.10	15.20	14.50	0.00	14.50	11.00	15.20	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 5:30 PM	205.00	4.10	19.00	14.70	0.00	14.70	11.90	19.00	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 5:45 PM	195.00	4.40	23.30	17.40	0.00	17.40	13.90	23.30	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 6:00 PM	191.00	4.90	41.40	19.80	0.00	19.80	17.20	41.40	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 6:15 PM	226.00	5.20	55.40	22.50	0.00	22.50	20.20	55.40	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 6:30 PM	212.00	3.70	73.20	24.40	0.00	24.40	25.00	73.20	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 6:45 PM	197.00	3.20	88.90	26.10	0.00	26.10	27.20	88.90	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/13/15 7:00 PM	188.00	4.10	96.00	26.60	0.00	26.60	28.60	96.00	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 7:15 PM	203.00	3.50	110.00	27.00	0.00	27.00	29.70	110.00	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 7:30 PM	189.00	2.90	122.60	27.70	0.00	27.70	31.00	122.60	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 7:45 PM	204.00	8.60	211.80	25.20	0.00	25.20	32.20	211.80	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 8:00 PM	196.00	3.00	241.20	22.90	0.00	22.90	34.10	241.20	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 8:15 PM	195.00	2.70	311.50	21.80	0.00	21.80	34.10	311.50	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 8:30 PM	209.00	2.90	347.00	21.40	0.00	21.40	37.30	347.00	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 8:45 PM	187.00	3.70	389.00	20.80	0.00	20.80	37.00	389.00	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 9:00 PM	188.00	3.70	344.80	21.40	0.00	21.40	26.30	344.80	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 9:15 PM	210.00	6.20	141.60	14.90	0.00	14.90	12.60	141.60	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 9:30 PM	264.00	15.40	52.30	14.30	0.00	14.30	13.10	52.30	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 9:45 PM	306.00	3.70	10.10	13.90	3.80	17.20	13.90	14.60	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 10:00 PM	240.00	2.40	16.10	23.10	7.00	23.10	20.70	16.10	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 10:15 PM	238.00	2.80	32.80	20.20	0.00	20.20	19.70	32.80	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 10:30 PM	233.00	3.80	20.10	0.00	0.00	0.00	19.70	20.10	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 10:45 PM	268.00	4.10	2.10	23.10	21.00	23.10	19.70	2.10	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 11:00 PM	258.00	4.10	1.00	5.90	4.90	5.90	2.80	1.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 11:15 PM	287.00	4.50	4.40	4.80	0.40	10.90	4.80	1.50	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 11:30 PM	284.00	6.40	5.50	7.10	1.60	13.50	7.10	2.30	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/15 11:45 PM	263.00	5.60	2.70	0.00	0.00	0.00	10.50	2.70	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 12:00 AM	261.00	5.30	2.10	15.20	13.10	15.20	12.40	2.10	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 12:15 AM	259.00	4.90	2.50	13.70	11.20	13.70	11.40	2.50	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 12:30 AM	260.00	3.60	2.00	0.00	0.00	0.00	10.50	2.00	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 12:45 AM	269.00	4.70	1.80	13.00	11.20	13.00	9.10	1.80	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 1:00 AM	264.00	4.80	1.70	12.40	10.70	12.40	8.40	1.70	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 1:15 AM	284.00	3.80	4.30	7.90	3.60	11.80	7.90	1.80	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 1:30 AM	277.00	4.00	4.70	9.30	4.60	12.70	9.30	2.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 1:45 AM	272.00	3.10	5.40	9.40	4.00	13.10	9.40	1.90	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 2:00 AM	277.00	2.80	5.00	9.10	4.10	12.70	9.10	1.80	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 2:15 AM	269.00	2.90	1.80	11.50	9.70	11.50	9.00	1.80	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 2:30 AM	262.00	3.00	1.90	11.40	9.50	11.40	9.00	1.90	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 2:45 AM	261.00	2.90	2.00	12.20	10.20	12.20	9.10	2.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 3:00 AM	226.00	0.80	2.00	0.00	0.00	0.00	9.40	2.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 3:15 AM	243.00	2.20	2.30	13.20	10.90	13.20	10.60	2.30	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 3:30 AM	254.00	1.40	2.50	0.00	0.00	0.00	11.50	2.50	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 3:45 AM	223.00	2.20	2.50	0.00	0.00	0.00	12.30	2.50	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 4:00 AM	228.00	2.30	4.70	15.10	10.40	15.10	12.80	4.70	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 4:15 AM	219.00	2.10	7.10	0.00	0.00	0.00	15.00	7.10	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 4:30 AM	228.00	2.20	10.90	17.70	6.80	17.70	17.20	10.90	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 4:45 AM	239.00	2.40	13.70	17.40	3.70	17.40	17.20	13.70	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 5:00 AM	248.00	2.00	16.50	17.90	1.40	17.90	16.90	16.50	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 5:15 AM	245.00	2.10	18.60	16.80	0.00	16.80	17.20	18.60	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 5:30 AM	234.00	2.60	21.40	17.50	0.00	17.50	18.40	21.40	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 5:45 AM	249.00	2.30	23.40	18.10	0.00	18.10	18.90	23.40	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 6:00 AM	252.00	2.30	22.60	18.90	0.00	18.90	19.40	22.60	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 6:15 AM	260.00	3.40	21.70	19.10	0.00	19.10	19.20	21.70	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 6:30 AM	257.00	3.50	23.10	19.30	0.00	19.30	19.10	23.10	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 6:45 AM	254.00	3.60	20.90	20.40	0.00	20.40	19.20	20.90	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 7:00 AM	264.00	3.80	19.50	19.80	0.30	19.80	18.50	19.50	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 7:15 AM	254.00	3.40	16.50	19.80	3.30	19.80	18.30	16.50	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 7:30 AM	253.00	4.30	11.60	19.10	7.50	19.10	16.40	11.60	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 7:45 AM	279.00	4.00	8.40	15.80	7.40	19.40	15.80	9.10	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 8:00 AM	300.00	5.60	8.20	15.00	6.80	20.00	15.00	7.10	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 8:15 AM	302.00	4.50	8.50	14.30	5.80	21.40	14.30	3.60	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 8:30 AM	293.00	5.40	8.40	13.50	5.10	20.60	13.50	2.80	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 8:45 AM	316.00	5.70	8.60	13.20	4.60	20.60	13.20	2.70	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 9:00 AM	305.00	4.50	8.80	13.10	4.30	21.10	13.10	2.70	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 9:15 AM	298.00	7.20	8.60	12.00	3.40	19.10	12.00	2.50	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 9:30 AM	295.00	4.80	8.60	11.20	2.60	18.20	11.20	2.30	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 9:45 AM	316.00	5.80	8.40	8.80	0.40	15.60	8.80	1.80	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 10:00 AM	327.00	7.30	8.00	8.10	0.10	16.80	8.10	1.80	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 10:15 AM	358.00	8.00	8.30	7.20	0.00	14.20	7.20	1.80	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 10:30 AM	10.00	6.00	13.80	1.50	0.00	13.80	6.30	1.50	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 10:45 AM	16.00	5.40	14.40	1.50	0.00	14.40	6.60	1.50	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 11:00 AM	20.00	7.40	16.10	1.60	0.00	16.10	7.60	1.60	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 11:15 AM	8.00	7.00	15.10	1.50	0.00	15.10	7.90	1.50	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 11:30 AM	352.00	7.20	6.80	7.10	0.30	17.10	7.10	1.60	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 11:45 AM	8.00	7.50	15.70	1.80	0.00	15.70	7.80	1.80	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 12:00 PM	11.00	7.10	13.90	0.00	0.00	13.90	8.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 12:15 PM	18.00	7.60	15.40	2.00	0.00	15.40	9.60	2.00	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 12:30 PM	21.00	9.80	13.80	1.70	0.00	13.80	11.20	1.70	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 12:45 PM	20.00	7.70	17.50	1.90	0.00	17.50	12.60	1.90	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 1:00 PM	28.00	7.10	19.50	1.90	0.00	19.50	9.50	1.90	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 1:15 PM	25.00	7.90	15.60	2.10	0.00	15.60	9.50	2.10	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 1:30 PM	23.00	7.90	11.60	3.10	0.00	11.60	9.40	3.10	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 1:45 PM	20.00	8.60	8.00	4.00	0.00	8.00	8.30	4.00	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 2:00 PM	20.00	8.20	6.80	3.50	0.00	6.80	5.90	3.50	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 2:15 PM	23.00	8.90	0.00	3.50	0.00	0.00	5.80	3.50	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 2:30 PM	21.00	8.40	4.60	3.00	0.00	4.60	4.70	3.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 2:45 PM	17.00	8.80	5.50	3.50	0.00	5.50	5.70	3.50	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 3:00 PM	14.00	9.90	6.10	4.10	0.00	6.10	6.00	4.10	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 3:15 PM	24.00	10.00	7.90	3.90	0.00	7.90	6.10	3.90	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 3:30 PM	20.00	10.70	5.50	4.70	0.00	5.50	6.20	4.70	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 3:45 PM	17.00	10.70	0.00	6.00	0.00	0.00	6.10	6.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 4:00 PM	18.00	10.70	9.30	7.90	0.00	9.30	8.00	7.90	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 4:15 PM	26.00	10.40	12.50	11.30	0.00	12.50	9.70	11.30	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 4:30 PM	14.00	10.10	9.50	11.00	1.50	9.50	8.30	11.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 4:45 PM	2.00	10.30	9.70	14.50	4.80	9.70	9.10	14.50	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 5:00 PM	9.00	9.10	10.10	15.80	5.70	10.10	10.10	15.80	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 5:15 PM	8.00	10.80	8.90	10.80	1.90	8.90	9.60	10.80	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 5:30 PM	10.00	10.00	8.40	8.20	0.00	8.40	7.90	8.20	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 5:45 PM	10.00	9.90	8.20	6.30	0.00	8.20	6.70	6.30	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 6:00 PM	4.00	10.20	7.00	5.50	0.00	7.00	6.70	5.50	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 6:15 PM	5.00	9.60	9.20	4.50	0.00	9.20	7.30	4.50	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 6:30 PM	12.00	8.70	3.10	4.70	1.60	3.10	5.70	4.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 6:45 PM	8.00	10.50	6.30	4.90	0.00	6.30	5.10	4.90	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 7:00 PM	6.00	11.80	6.00	4.30	0.00	6.00	16.90	4.30	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 7:15 PM	16.00	9.50	13.10	4.90	0.00	13.10	5.70	4.90	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 7:30 PM	10.00	9.80	5.30	4.20	0.00	5.30	6.80	4.20	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 7:45 PM	1.00	11.20	3.20	4.30	1.10	3.20	7.70	4.30	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 8:00 PM	7.00	10.20	5.90	4.90	0.00	5.90	6.30	4.90	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/14/15 8:15 PM	1.00	9.30	8.60	5.40	0.00	8.60	5.70	5.40	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 8:30 PM	6.00	12.40	5.10	5.40	0.30	5.10	5.50	5.40	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 8:45 PM	8.00	8.80	4.70	3.10	0.00	4.70	7.20	3.10	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 9:00 PM	1.00	9.10	9.90	3.30	0.00	9.90	5.20	3.30	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 9:15 PM	5.00	12.20	12.40	4.30	0.00	12.40	6.90	4.30	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 9:30 PM	4.00	12.30	5.90	3.30	0.00	5.90	7.10	3.30	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 9:45 PM	7.00	10.30	8.70	3.40	0.00	8.70	9.30	3.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 10:00 PM	6.00	9.10	12.00	3.60	0.00	12.00	8.80	3.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 10:15 PM	9.00	7.80	7.40	4.20	0.00	7.40	7.50	4.20	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 10:30 PM	1.00	9.10	0.00	4.20	0.00	0.00	8.10	4.20	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 10:45 PM	359.00	7.60	3.50	9.30	5.80	12.70	9.30	4.10	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 11:00 PM	6.00	8.80	9.50	2.90	0.00	9.50	8.70	2.90	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 11:15 PM	10.00	7.50	10.20	2.40	0.00	10.20	6.80	2.40	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 11:30 PM	1.00	8.20	9.20	2.20	0.00	9.20	6.60	2.20	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/15 11:45 PM	354.00	8.20	4.60	6.50	1.90	12.90	6.50	2.10	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 12:00 AM	348.00	7.90	4.80	5.60	0.80	11.90	5.60	2.10	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 12:15 AM	347.00	8.40	4.60	4.80	0.20	13.60	4.80	1.90	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 12:30 AM	350.00	8.80	4.70	4.80	0.10	8.80	4.80	1.90	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 12:45 AM	354.00	9.30	4.00	4.80	0.80	6.40	4.80	2.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 1:00 AM	4.00	9.10	4.70	2.20	0.00	4.70	4.40	2.20	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 1:15 AM	359.00	8.10	2.90	4.70	1.80	3.40	4.70	2.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 1:30 AM	8.00	9.90	3.10	2.50	0.00	3.10	4.10	2.50	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 1:45 AM	2.00	8.10	3.20	2.70	0.00	3.20	4.30	2.70	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 2:00 AM	0.00	8.80	3.00	2.80	0.00	3.00	4.70	2.80	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 2:15 AM	2.00	7.40	3.30	3.10	0.00	3.30	6.20	3.10	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 2:30 AM	356.00	8.50	1.90	4.40	2.50	3.40	4.40	3.10	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 2:45 AM	9.00	8.10	2.90	3.10	0.20	2.90	4.00	3.10	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 3:00 AM	359.00	8.80	1.80	7.10	5.30	3.10	7.10	3.30	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 3:15 AM	359.00	9.10	1.90	4.40	2.50	4.60	4.40	3.20	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 3:30 AM	3.00	8.80	4.40	3.20	0.00	4.40	3.50	3.20	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 3:45 AM	1.00	9.00	3.30	3.20	0.00	3.30	3.20	3.20	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 4:00 AM	358.00	8.60	2.00	3.50	1.50	2.60	3.50	3.20	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 4:15 AM	19.00	7.30	0.00	3.10	0.00	0.00	4.80	3.10	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 4:30 AM	12.00	6.30	3.30	3.90	0.60	3.30	2.30	3.90	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 4:45 AM	29.00	6.80	4.10	3.90	0.00	4.10	3.20	3.90	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 5:00 AM	21.00	6.80	2.50	4.30	1.80	2.50	2.70	4.30	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 5:15 AM	22.00	7.60	16.90	4.50	0.00	16.90	3.30	4.50	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 5:30 AM	28.00	6.20	6.60	5.90	0.00	6.60	2.90	5.90	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 5:45 AM	38.00	5.50	2.50	5.70	3.20	2.50	3.00	5.70	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 6:00 AM	34.00	5.50	5.20	6.30	1.10	5.20	3.70	6.30	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 6:15 AM	38.00	4.60	0.00	6.60	0.00	0.00	3.80	6.60	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 6:30 AM	39.00	6.10	4.10	8.00	3.90	4.10	3.40	8.00	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 6:45 AM	39.00	4.90	2.90	11.90	9.00	2.90	3.20	11.90	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 7:00 AM	44.00	5.00	2.40	11.80	9.40	2.40	3.10	11.80	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 7:15 AM	39.00	4.80	0.00	9.90	0.00	0.00	3.60	9.90	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 7:30 AM	30.00	5.00	2.30	10.10	7.80	2.30	4.20	10.10	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 7:45 AM	354.00	5.20	2.10	4.40	2.30	0.00	4.40	12.20	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 8:00 AM	354.00	4.50	2.50	4.50	2.00	2.70	4.50	14.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 8:15 AM	341.00	4.80	4.80	5.20	0.40	3.10	5.20	16.90	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 8:30 AM	352.00	4.90	2.20	4.40	2.20	3.80	4.40	11.90	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 8:45 AM	356.00	5.50	2.00	5.50	3.50	3.30	5.50	9.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 9:00 AM	349.00	5.10	2.00	4.20	2.20	2.50	4.20	9.30	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 9:15 AM	350.00	4.80	2.40	5.40	3.00	3.00	5.40	8.80	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 9:30 AM	7.00	4.40	4.90	8.60	3.70	4.90	6.60	8.60	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 9:45 AM	6.00	7.60	2.60	7.50	4.90	2.60	5.20	7.50	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 10:00 AM	3.00	8.00	2.50	7.30	4.80	2.50	0.00	7.30	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 10:15 AM	356.00	6.30	2.30	3.40	1.10	3.50	3.40	7.20	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 10:30 AM	5.00	6.40	4.60	6.50	1.90	4.60	2.40	6.50	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 10:45 AM	17.00	6.70	4.50	6.60	2.10	4.50	2.30	6.60	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 11:00 AM	16.00	6.10	3.90	6.50	2.60	3.90	4.00	6.50	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 11:15 AM	14.00	4.40	3.60	5.80	2.20	3.60	3.60	5.80	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 11:30 AM	14.00	5.20	4.80	5.80	1.00	4.80	13.70	5.80	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 11:45 AM	18.00	6.10	6.40	6.60	0.20	6.40	3.60	6.60	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 12:00 PM	22.00	5.60	8.40	7.30	0.00	8.40	4.60	7.30	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 12:15 PM	27.00	4.70	9.80	7.10	0.00	9.80	5.50	7.10	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 12:30 PM	21.00	3.00	10.20	7.20	0.00	10.20	5.30	7.20	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 12:45 PM	24.00	4.30	8.70	9.10	0.40	8.70	5.10	9.10	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 1:00 PM	355.00	4.80	3.90	5.70	1.80	12.40	5.70	6.90	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 1:15 PM	344.00	5.20	4.00	7.10	3.10	0.00	7.10	7.10	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 1:30 PM	355.00	5.10	3.40	6.20	2.80	13.70	6.20	8.50	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 1:45 PM	348.00	4.20	4.30	6.30	2.00	0.00	6.30	7.90	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 2:00 PM	334.00	3.20	4.10	7.70	3.60	9.20	7.70	7.00	4.10	18.00	0.00	0.00	18.00	0.00	0.00	0.00
7/15/15 2:15 PM	349.00	5.30	3.90	6.10	2.20	9.50	6.10	7.00	3.90	13.60	0.00	0.00	13.60	0.00	0.00	0.00
7/15/15 2:30 PM	356.00	6.10	4.00	6.20	2.20	7.70	6.20	6.50	4.00	21.50	0.00	0.00	21.50	0.00	0.00	0.00
7/15/15 2:45 PM	350.00	5.60	4.60	6.90	2.30	9.60	6.90	4.60	4.60	22.40	0.00	0.00	22.40	0.00	0.00	0.00
7/15/15 3:00 PM	345.00	5.00	4.30	6.70	2.40	7.90	6.70	4.50	4.30	23.90	0.00	0.00	23.90	0.00	0.00	0.00
7/15/15 3:15 PM	350.00	5.70	4.30	6.70	2.40	12.20	6.70	4.20	4.30	21.10	0.00	0.00	21.10	0.00	0.00	0.00
7/15/15 3:30 PM	348.00	4.10	4.10	5.80	1.70	0.00	5.80	4.20	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 3:45 PM	356.00	4.50	4.50	6.30	1.80	9.80	6.30	3.90	4.50	13.40	0.00	0.00	13.40	0.00	0.00	0.00
7/15/15 4:00 PM	8.00	4.10	10.40	4.50	0.00	10.40	7.10	4.50	4.50	12.70	0.00	0.00	12.70	0.00	0.00	0.00
7/15/15 4:15 PM	28.00	6.20	10.20	4.50	0.00	10.20	8.30	4.50	4.50	8.40	0.00	0.00	8.40	0.00	0.00	0.00
7/15/15 4:30 PM	1.00	3.90	10.10	4.60	0.00	10.10	7.90	4.60	4.90	6.50	0.00	0.00	6.50	0.00	0.00	0.00
7/15/15 4:45 PM	355.00	3.60	4.40	8.10	3.70	37.00	8.10	3.60	4.40	2.50	0.00	0.00	2.50	0.00	0.00	0.00
7/15/15 5:00 PM	3.00	5.30	19.00	2.10	0.00	19.00	1.80	2.10	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 5:15 PM	31.00	6.70	19.00	2.00	0.00	19.00	1.00	2.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 5:30 PM	18.00	5.80	23.00	2.00	0.00	23.00	2.20	2.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 5:45 PM	23.00	5.30	12.10	2.40	0.00	12.10	1.30	2.40	4.50	2.60	0.00	0.00	2.60	0.00	0.00	0.00
7/15/15 6:00 PM	32.00	4.90	16.00	2.40	0.00	16.00	4.40	2.40	5.80	1.90	0.00	0.00	1.90	0.00	0.00	0.00
7/15/15 6:15 PM	26.00	4.90	23.60	1.30	0.00	23.60	1.90	1.30	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 6:30 PM	31.00	5.10	11.80	1.50	0.00	11.80	1.30	1.50	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 6:45 PM	41.00	5.30	16.50	1.30	0.00	16.50	2.40	1.30	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 7:00 PM	38.00	6.60	10.30	2.10	0.00	10.30	3.60	2.10	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 7:15 PM	36.00	5.60	15.40	1.90	0.00	15.40	2.50	1.90	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 7:30 PM	36.00	5.00	18.80	2.60	0.00	18.80	0.90	2.60	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 7:45 PM	36.00	5.60	14.80	3.00	0.00	14.80	1.70	3.00	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 8:00 PM	34.00	5.10	13.40	3.80	0.00	13.40	2.40	3.80	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 8:15 PM	29.00	5.40	18.20	8.20	0.00	18.20	4.30	8.20	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 8:30 PM	27.00	5.70	10.90	7.60	0.00	10.90	9.40	7.60	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 8:45 PM	30.00	5.40	9.90	10.00	0.10	9.90	6.20	10.00	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 9:00 PM	26.00	5.50	9.80	12.50	2.70	9.80	7.40	12.50	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 9:15 PM	28.00	3.40	10.50	14.50	4.00	10.50	13.10	14.50	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/15/15 9:30 PM	27.00	4.60	10.70	20.60	9.90	10.70	53.90	20.60	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 9:45 PM	48.00	3.80	9.20	22.70	13.50	9.20	20.40	22.70	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 10:00 PM	40.00	3.40	0.00	19.20	0.00	0.00	18.90	19.20	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 10:15 PM	61.00	2.50	9.90	20.50	10.60	9.90	23.90	20.50	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 10:30 PM	58.00	4.10	7.90	20.80	12.90	7.90	24.30	20.80	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 10:45 PM	53.00	3.30	8.70	19.00	10.30	8.70	21.80	19.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 11:00 PM	65.00	2.30	9.90	29.80	19.90	9.90	71.30	29.80	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 11:15 PM	71.00	2.70	27.00	29.40	2.40	27.00	21.40	29.40	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 11:30 PM	69.00	3.40	17.00	29.40	12.40	17.00	31.50	29.40	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/15 11:45 PM	69.00	2.90	28.30	34.70	6.40	28.30	20.90	34.70	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 12:00 AM	66.00	2.20	21.00	22.20	1.20	21.00	21.60	22.20	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 12:15 AM	47.00	1.40	27.00	29.70	2.70	27.00	31.20	29.70	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 12:30 AM	58.00	1.50	17.50	27.30	9.80	17.50	27.40	27.30	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 12:45 AM	62.00	1.80	18.90	27.00	8.10	18.90	27.00	27.00	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 1:00 AM	66.00	1.70	50.70	30.30	0.00	50.70	29.60	30.30	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 1:15 AM	69.00	1.40	44.70	36.00	0.00	44.70	44.60	36.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 1:30 AM	250.00	1.10	39.80	36.50	0.00	36.50	44.80	39.80	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 1:45 AM	260.00	0.90	29.50	32.40	2.90	32.40	48.20	29.50	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 2:00 AM	311.00	1.60	7.70	74.70	67.00	20.70	74.70	38.10	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 2:15 AM	355.00	1.60	5.40	22.50	17.10	38.20	22.50	39.50	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 2:30 AM	357.00	0.80	4.60	32.90	28.30	28.60	32.90	34.90	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 2:45 AM	339.00	0.60	4.40	37.90	33.50	13.30	37.90	35.30	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 3:00 AM	162.00	0.80	26.30	4.60	0.00	11.50	26.30	26.00	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 3:15 AM	180.00	0.40	24.40	5.10	0.00	5.10	13.70	24.40	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 3:30 AM	131.00	0.60	13.30	3.50	0.00	7.40	13.30	22.20	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 3:45 AM	173.00	0.80	20.30	3.60	0.00	9.60	20.30	22.70	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 4:00 AM	219.00	0.50	22.50	7.00	0.00	7.00	23.80	22.50	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 4:15 AM	149.00	0.90	20.60	6.50	0.00	16.80	20.60	25.40	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 4:30 AM	76.00	0.40	27.00	31.10	4.10	27.00	33.60	31.10	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 4:45 AM	110.00	1.30	36.90	10.40	0.00	31.00	36.90	32.60	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 5:00 AM	130.00	1.60	33.50	7.10	0.00	24.30	33.50	35.90	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 5:15 AM	133.00	1.70	36.80	7.20	0.00	17.90	36.80	34.90	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 5:30 AM	154.00	1.40	17.50	7.20	0.00	10.40	17.50	36.60	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 5:45 AM	160.00	2.00	31.60	8.70	0.00	17.00	31.60	31.90	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 6:00 AM	149.00	1.70	19.60	5.60	0.00	13.60	19.60	28.60	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 6:15 AM	144.00	2.80	17.40	11.30	0.00	21.20	17.40	27.40	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 6:30 AM	184.00	2.50	27.80	18.40	0.00	18.40	17.20	27.80	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 6:45 AM	157.00	2.90	23.80	8.10	0.00	15.90	23.80	26.90	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 7:00 AM	163.00	2.10	25.20	10.50	0.00	16.20	25.20	27.50	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 7:15 AM	143.00	3.10	34.70	12.20	0.00	20.80	34.70	24.70	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 7:30 AM	152.00	3.50	29.50	11.00	0.00	30.70	29.50	23.10	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 7:45 AM	156.00	2.70	33.00	10.20	0.00	26.30	33.00	21.60	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 8:00 AM	162.00	3.30	24.50	11.30	0.00	0.00	24.50	20.60	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 8:15 AM	164.00	4.10	27.00	10.90	0.00	35.40	27.00	19.70	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 8:30 AM	174.00	4.30	23.10	10.80	0.00	30.60	23.10	18.70	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 8:45 AM	185.00	3.90	17.70	21.20	3.50	21.20	41.00	17.70	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 9:00 AM	174.00	4.60	19.60	10.70	0.00	21.10	19.60	16.80	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 9:15 AM	194.00	4.00	17.30	20.00	2.70	20.00	22.10	17.30	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 9:30 AM	195.00	5.00	18.30	20.40	2.10	20.40	22.10	18.30	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 9:45 AM	191.00	4.50	20.30	23.60	3.30	23.60	27.40	20.30	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 10:00 AM	190.00	3.50	21.10	22.80	1.70	22.80	24.00	21.10	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 10:15 AM	154.00	2.70	30.00	11.40	0.00	24.10	30.00	21.20	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 10:30 AM	163.00	2.90	22.50	11.60	0.00	22.10	22.50	23.10	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 10:45 AM	170.00	3.50	25.80	11.60	0.00	23.10	25.80	27.70	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 11:00 AM	164.00	3.40	30.00	11.60	0.00	22.90	30.00	29.90	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 11:15 AM	157.00	4.60	29.30	12.30	0.00	19.70	29.30	36.60	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 11:30 AM	161.00	3.80	35.40	12.50	0.00	23.10	35.40	36.60	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 11:45 AM	144.00	4.00	32.10	11.80	0.00	22.40	32.10	28.50	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 12:00 PM	155.00	4.70	30.30	11.70	0.00	20.60	30.30	28.30	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 12:15 PM	161.00	4.20	27.40	11.00	0.00	21.80	27.40	23.70	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 12:30 PM	164.00	3.50	24.60	10.70	0.00	19.70	24.60	27.50	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 12:45 PM	142.00	4.30	20.50	11.90	0.00	21.90	20.50	22.50	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 1:00 PM	155.00	3.70	24.40	11.60	0.00	15.20	24.40	18.60	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 1:15 PM	152.00	5.20	22.20	10.90	0.00	15.90	22.20	17.70	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 1:30 PM	168.00	5.00	16.30	8.60	0.00	18.20	16.30	17.10	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 1:45 PM	158.00	4.70	14.20	8.60	0.00	18.00	14.20	15.40	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 2:00 PM	179.00	4.90	18.80	10.20	0.00	17.50	18.80	14.90	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 2:15 PM	164.00	3.60	15.70	10.10	0.00	18.30	15.70	14.20	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 2:30 PM	145.00	5.30	13.80	8.40	0.00	15.60	13.80	14.50	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 2:45 PM	143.00	6.50	14.10	8.80	0.00	15.60	14.10	14.30	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 3:00 PM	151.00	5.70	14.00	9.50	0.00	16.40	14.00	11.60	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 3:15 PM	164.00	5.30	14.30	9.00	0.00	17.30	14.30	10.30	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 3:30 PM	152.00	6.90	12.60	8.90	0.00	14.30	12.60	10.50	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 3:45 PM	186.00	5.90	11.10	18.40	7.30	18.40	13.90	11.10	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 4:00 PM	165.00	6.20	12.20	8.60	0.00	15.90	12.20	12.70	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 4:15 PM	169.00	4.90	13.40	7.80	0.00	14.30	13.40	11.50	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 4:30 PM	171.00	3.90	13.50	8.30	0.00	14.50	13.50	9.50	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 4:45 PM	172.00	5.70	10.40	8.40	0.00	14.10	10.40	7.50	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 5:00 PM	177.00	5.20	11.20	8.20	0.00	15.20	11.20	7.80	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 5:15 PM	171.00	3.00	11.90	8.30	0.00	15.40	11.90	8.30	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 5:30 PM	159.00	4.60	13.70	9.20	0.00	16.30	13.70	10.70	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 5:45 PM	156.00	2.30	14.90	9.80	0.00	18.40	14.90	12.00	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 6:00 PM	172.00	2.30	14.90	9.60	0.00	17.60	14.90	12.90	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 6:15 PM	129.00	3.00	16.70	10.60	0.00	19.80	16.70	14.40	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 6:30 PM	110.00	2.50	18.90	11.70	0.00	20.30	18.90	17.10	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 6:45 PM	48.00	3.20	20.80	19.30	0.00	20.80	21.80	19.30	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 7:00 PM	22.00	1.50	22.70	24.60	1.90	22.70	23.90	24.60	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 7:15 PM	74.00	3.30	25.80	27.30	1.50	25.80	32.20	27.30	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 7:30 PM	134.00	3.10	37.30	14.30	0.00	27.80	37.30	33.60	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 7:45 PM	110.00	3.80	40.30	11.70	0.00	0.00	40.30	38.40	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 8:00 PM	114.00	2.30	57.10	11.70	0.00	28.40	57.10	46.00	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 8:15 PM	171.00	2.00	71.00	12.50	0.00	34.70	71.00	60.40	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 8:30 PM	152.00	3.40	58.20	15.40	0.00	19.90	58.20	59.60	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 8:45 PM	165.00	3.30	44.60	9.60	0.00	18.30	44.60	48.10	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 9:00 PM	149.00	3.70	54.70	9.80	0.00	22.90	54.70	52.40	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 9:15 PM	143.00	4.00	50.10	12.00	0.00	26.70	50.10	64.60	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 9:30 PM	142.00	3.40	58.80	12.70	0.00	33.40	58.80	99.00	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 9:45 PM	142.00	3.90	74.60	15.30	0.00	28.50	74.60	160.90	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 10:00 PM	150.00	3.10	64.00	13.70	0.00	27.90	64.00	256.40	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 10:15 PM	148.00	4.50	57.70	12.50	0.00	25.70	57.70	237.80	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 10:30 PM	168.00	4.60	56.30	12.50	0.00	22.60	56.30	166.60	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/16/15 10:45 PM	161.00	4.70	52.20	13.10	0.00	22.80	52.20	145.80	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 11:00 PM	178.00	4.30	51.90	11.80	0.00	23.80	51.90	145.20	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 11:15 PM	154.00	4.70	54.50	12.80	0.00	23.70	54.50	137.80	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 11:30 PM	163.00	4.20	56.00	13.50	0.00	24.60	56.00	135.80	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/15 11:45 PM	152.00	1.80	47.70	12.70	0.00	26.40	47.70	131.20	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 12:00 AM	299.00	1.50	12.20	47.00	34.80	26.50	47.00	130.40	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 12:15 AM	174.00	5.90	46.50	12.40	0.00	27.40	46.50	139.50	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 12:30 AM	190.00	4.20	162.90	26.40	0.00	26.40	48.60	162.90	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 12:45 AM	196.00	3.70	151.30	27.30	0.00	27.30	50.30	151.30	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 1:00 AM	193.00	3.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 1:15 AM	192.00	3.20	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 1:30 AM	186.00	3.20	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 1:45 AM	184.00	2.90	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 2:00 AM	193.00	3.00	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 2:15 AM	198.00	3.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 2:30 AM	198.00	4.30	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 2:45 AM	194.00	4.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 3:00 AM	205.00	5.10	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 3:15 AM	208.00	3.90	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 3:30 AM	208.00	3.50	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 3:45 AM	209.00	3.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 4:00 AM	201.00	3.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 4:15 AM	209.00	3.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 4:30 AM	211.00	3.50	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 4:45 AM	204.00	3.30	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 5:00 AM	205.00	2.20	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 5:15 AM	196.00	2.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 5:30 AM	198.00	3.20	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 5:45 AM	200.00	3.60	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 6:00 AM	209.00	1.90	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 6:15 AM	201.00	3.20	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 6:30 AM	189.00	2.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 6:45 AM	208.00	2.50	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 7:00 AM	202.00	2.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 7:15 AM	215.00	3.00	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 7:30 AM	213.00	2.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 7:45 AM	218.00	3.50	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 8:00 AM	225.00	5.20	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 8:15 AM	214.00	4.50	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 8:30 AM	242.00	4.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 8:45 AM	252.00	4.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 9:00 AM	238.00	4.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 9:15 AM	256.00	3.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 9:30 AM	259.00	3.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 9:45 AM	241.00	5.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 10:00 AM	236.00	4.20	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 10:15 AM	236.00	4.30	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 10:30 AM	264.00	3.60	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 10:45 AM	221.00	5.10	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 11:00 AM	289.00	4.20	13.40	48.10	34.70	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 11:15 AM	273.00	3.80	13.40	48.10	34.70	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 11:30 AM	255.00	3.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 11:45 AM	257.00	3.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 12:00 PM	246.00	4.50	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 12:15 PM	240.00	4.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 12:30 PM	247.00	2.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 12:45 PM	257.00	2.90	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 1:00 PM	211.00	2.60	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 1:15 PM	223.00	4.30	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 1:30 PM	258.00	3.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 1:45 PM	230.00	2.20	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 2:00 PM	227.00	3.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 2:15 PM	240.00	3.60	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 2:30 PM	252.00	2.30	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 2:45 PM	239.00	3.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 3:00 PM	240.00	3.10	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 3:15 PM	223.00	3.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 3:30 PM	260.00	3.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 3:45 PM	267.00	2.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 4:00 PM	238.00	4.60	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 4:15 PM	243.00	4.00	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 4:30 PM	252.00	2.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 4:45 PM	243.00	3.30	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 5:00 PM	258.00	3.00	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 5:15 PM	283.00	2.80	13.40	48.10	34.70	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 5:30 PM	254.00	2.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 5:45 PM	217.00	3.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 6:00 PM	243.00	4.60	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 6:15 PM	256.00	2.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 6:30 PM	209.00	2.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 6:45 PM	233.00	4.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 7:00 PM	259.00	1.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 7:15 PM	265.00	2.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 7:30 PM	258.00	3.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 7:45 PM	269.00	3.00	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 8:00 PM	347.00	3.60	13.40	48.10	34.70	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 8:15 PM	99.00	2.00	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 8:30 PM	109.00	4.60	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 8:45 PM	72.00	4.00	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 9:00 PM	98.00	4.20	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 9:15 PM	153.00	5.90	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 9:30 PM	170.00	5.90	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 9:45 PM	152.00	3.70	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 10:00 PM	0.00	0.00	0.00	0.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 10:15 PM	0.00	0.00	0.00	0.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 10:30 PM	0.00	0.00	0.00	0.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 10:45 PM	184.00	3.60	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 11:00 PM	187.00	5.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 11:15 PM	185.00	6.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 11:30 PM	196.00	4.30	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/15 11:45 PM	211.00	4.30	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/18/15 12:00 AM	209.00	5.00	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 12:15 AM	210.00	3.30	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 12:30 AM	222.00	3.30	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 12:45 AM	202.00	3.30	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 1:00 AM	214.00	2.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 1:15 AM	275.00	2.80	13.40	48.10	34.70	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 1:30 AM	233.00	2.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 1:45 AM	239.00	1.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 2:00 AM	254.00	1.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 2:15 AM	215.00	0.90	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 2:30 AM	177.00	1.70	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 2:45 AM	172.00	1.60	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 3:00 AM	170.00	2.10	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 3:15 AM	193.00	1.90	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 3:30 AM	171.00	1.60	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 3:45 AM	185.00	2.30	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 4:00 AM	183.00	2.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 4:15 AM	183.00	3.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 4:30 AM	187.00	2.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 4:45 AM	191.00	2.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 5:00 AM	179.00	2.80	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 5:15 AM	181.00	3.50	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 5:30 AM	179.00	3.00	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 5:45 AM	178.00	2.60	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 6:00 AM	182.00	3.20	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 6:15 AM	187.00	2.50	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 6:30 AM	186.00	3.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 6:45 AM	184.00	3.00	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 7:00 AM	176.00	4.60	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 7:15 AM	194.00	4.00	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 7:30 AM	193.00	4.00	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 7:45 AM	193.00	4.50	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 8:00 AM	196.00	3.50	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 8:15 AM	202.00	4.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 8:30 AM	210.00	3.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 8:45 AM	200.00	2.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 9:00 AM	204.00	3.10	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 9:15 AM	227.00	4.60	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 9:30 AM	243.00	2.90	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 9:45 AM	265.00	1.90	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 10:00 AM	20.00	1.00	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 10:15 AM	192.00	1.20	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 10:30 AM	247.00	1.00	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 10:45 AM	8.00	0.60	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 11:00 AM	35.00	3.00	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 11:15 AM	63.00	6.60	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 11:30 AM	72.00	7.20	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 11:45 AM	94.00	6.50	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 12:00 PM	88.00	5.80	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 12:15 PM	73.00	6.50	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 12:30 PM	93.00	3.00	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 12:45 PM	111.00	2.80	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 1:00 PM	111.00	2.30	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 1:15 PM	157.00	4.30	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 1:30 PM	174.00	5.10	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 1:45 PM	202.00	5.10	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 2:00 PM	206.00	7.00	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 2:15 PM	177.00	5.20	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 2:30 PM	179.00	5.90	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 2:45 PM	187.00	7.10	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 3:00 PM	207.00	5.50	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 3:15 PM	189.00	6.30	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 3:30 PM	198.00	4.20	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 3:45 PM	208.00	5.10	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 4:00 PM	200.00	7.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 4:15 PM	188.00	5.10	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 4:30 PM	245.00	8.90	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 4:45 PM	246.00	8.00	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 5:00 PM	261.00	5.30	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 5:15 PM	278.00	8.10	13.40	48.10	34.70	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 5:30 PM	330.00	8.10	13.40	48.10	34.70	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 5:45 PM	16.00	11.90	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 6:00 PM	35.00	9.50	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 6:15 PM	124.00	4.50	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 6:30 PM	108.00	4.90	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 6:45 PM	119.00	4.10	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 7:00 PM	118.00	4.00	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 7:15 PM	131.00	3.00	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 7:30 PM	140.00	3.30	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 7:45 PM	169.00	3.30	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 8:00 PM	184.00	2.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 8:15 PM	187.00	2.00	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 8:30 PM	196.00	1.90	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 8:45 PM	199.00	2.00	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 9:00 PM	187.00	2.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 9:15 PM	178.00	2.90	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 9:30 PM	178.00	2.20	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 9:45 PM	182.00	2.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 10:00 PM	187.00	1.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 10:15 PM	194.00	2.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 10:30 PM	210.00	3.00	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 10:45 PM	209.00	2.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 11:00 PM	212.00	2.60	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 11:15 PM	212.00	2.90	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 11:30 PM	215.00	2.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/15 11:45 PM	207.00	2.90	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 12:00 AM	206.00	2.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 12:15 AM	215.00	2.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 12:30 AM	222.00	2.90	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 12:45 AM	224.00	3.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 1:00 AM	229.00	2.90	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/19/15 1:15 AM	227.00	4.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 1:30 AM	228.00	3.60	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 1:45 AM	227.00	4.20	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 2:00 AM	231.00	3.10	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 2:15 AM	233.00	3.00	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 2:30 AM	236.00	3.30	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 2:45 AM	244.00	3.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 3:00 AM	243.00	3.20	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 3:15 AM	245.00	2.60	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 3:30 AM	244.00	3.60	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 3:45 AM	247.00	2.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 4:00 AM	254.00	1.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 4:15 AM	254.00	1.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 4:30 AM	253.00	1.60	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 4:45 AM	254.00	1.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 5:00 AM	262.00	1.50	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 5:15 AM	242.00	1.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 5:30 AM	223.00	1.30	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 5:45 AM	233.00	1.60	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 6:00 AM	221.00	2.10	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 6:15 AM	234.00	2.50	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 6:30 AM	228.00	1.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 6:45 AM	227.00	2.20	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 7:00 AM	222.00	1.60	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 7:15 AM	230.00	1.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 7:30 AM	254.00	2.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 7:45 AM	260.00	2.60	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 8:00 AM	289.00	2.60	13.40	48.10	34.70	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 8:15 AM	293.00	2.50	13.40	48.10	34.70	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 8:30 AM	300.00	2.70	13.40	48.10	34.70	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 8:45 AM	287.00	2.40	13.40	48.10	34.70	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 9:00 AM	313.00	2.20	13.40	48.10	34.70	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 9:15 AM	345.00	4.20	13.40	48.10	34.70	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 9:30 AM	350.00	7.30	13.40	48.10	34.70	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 9:45 AM	353.00	5.40	13.40	48.10	34.70	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 10:00 AM	350.00	5.70	13.40	48.10	34.70	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 10:15 AM	347.00	4.80	13.40	48.10	34.70	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 10:30 AM	8.00	4.10	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 10:45 AM	35.00	4.30	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 11:00 AM	38.00	5.00	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 11:15 AM	38.00	3.00	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 11:30 AM	38.00	1.90	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 11:45 AM	125.00	1.30	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 12:00 PM	145.00	2.00	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 12:15 PM	113.00	3.10	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 12:30 PM	120.00	2.50	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 12:45 PM	112.00	2.40	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 1:00 PM	107.00	2.90	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 1:15 PM	71.00	2.50	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 1:30 PM	67.00	3.00	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 1:45 PM	328.00	3.80	13.40	48.10	34.70	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 2:00 PM	37.00	4.00	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 2:15 PM	14.00	3.50	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 2:30 PM	13.00	5.20	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 2:45 PM	29.00	4.20	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 3:00 PM	41.00	3.70	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 3:15 PM	8.00	4.40	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 3:30 PM	8.00	4.70	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 3:45 PM	14.00	3.00	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 4:00 PM	14.00	2.00	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 4:15 PM	11.00	2.90	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 4:30 PM	21.00	2.10	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 4:45 PM	39.00	3.80	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 5:00 PM	59.00	3.90	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 5:15 PM	84.00	4.30	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 5:30 PM	73.00	4.60	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 5:45 PM	68.00	4.90	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 6:00 PM	72.00	4.70	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 6:15 PM	73.00	4.60	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 6:30 PM	76.00	4.50	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 6:45 PM	77.00	5.30	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 7:00 PM	78.00	4.80	23.00	131.50	108.50	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 7:15 PM	125.00	3.70	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 7:30 PM	142.00	2.10	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 7:45 PM	101.00	1.80	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 8:00 PM	109.00	1.10	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 8:15 PM	183.00	1.50	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 8:30 PM	162.00	1.50	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 8:45 PM	153.00	1.50	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 9:00 PM	156.00	1.80	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 9:15 PM	156.00	1.90	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 9:30 PM	171.00	1.60	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 9:45 PM	168.00	1.50	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 10:00 PM	149.00	1.70	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 10:15 PM	169.00	1.60	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 10:30 PM	167.00	1.20	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 10:45 PM	180.00	1.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 11:00 PM	180.00	1.30	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 11:15 PM	197.00	1.10	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 11:30 PM	263.00	1.20	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/15 11:45 PM	190.00	0.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 12:00 AM	208.00	0.90	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 12:15 AM	219.00	1.00	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 12:30 AM	216.00	0.90	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 12:45 AM	164.00	0.60	48.10	13.40	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 1:00 AM	200.00	0.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 1:15 AM	183.00	1.00	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 1:30 AM	204.00	0.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 1:45 AM	239.00	1.10	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 2:00 AM	231.00	1.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 2:15 AM	238.00	1.60	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/20/15 2:30 AM	265.00	2.20	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 2:45 AM	257.00	1.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 3:00 AM	256.00	2.20	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 3:15 AM	242.00	1.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 3:30 AM	260.00	1.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 3:45 AM	254.00	1.30	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 4:00 AM	228.00	1.20	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 4:15 AM	237.00	2.00	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 4:30 AM	235.00	2.10	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 4:45 AM	229.00	2.20	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 5:00 AM	235.00	2.50	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 5:15 AM	231.00	2.00	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 5:30 AM	224.00	2.00	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 5:45 AM	207.00	1.30	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 6:00 AM	198.00	1.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 6:15 AM	236.00	2.50	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 6:30 AM	238.00	1.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 6:45 AM	227.00	2.30	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 7:00 AM	246.00	1.70	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 7:15 AM	222.00	2.60	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 7:30 AM	229.00	1.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 7:45 AM	224.00	2.30	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 8:00 AM	231.00	1.90	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 8:15 AM	241.00	2.50	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 8:30 AM	250.00	2.00	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 8:45 AM	257.00	3.30	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 9:00 AM	235.00	2.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 9:15 AM	211.00	2.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 9:30 AM	246.00	2.60	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 9:45 AM	246.00	3.90	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 10:00 AM	254.00	4.10	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 10:15 AM	266.00	3.60	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 10:30 AM	246.00	4.50	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 10:45 AM	255.00	4.10	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 11:00 AM	275.00	3.10	13.40	48.10	34.70	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 11:15 AM	265.00	2.50	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 11:30 AM	264.00	3.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 11:45 AM	291.00	4.10	13.40	48.10	34.70	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 12:00 PM	256.00	4.30	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 12:15 PM	278.00	3.90	13.40	48.10	34.70	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 12:30 PM	285.00	3.70	13.40	48.10	34.70	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 12:45 PM	267.00	2.00	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 1:00 PM	248.00	3.40	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 1:15 PM	269.00	2.20	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 1:30 PM	232.00	3.80	131.50	23.00	0.00	23.00	48.10	131.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 2:00 PM	236.00	4.20	4.20	16.90	12.70	16.90	13.60	4.20	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 2:15 PM	244.00	3.70	3.50	14.90	11.40	14.90	12.90	3.50	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 2:30 PM	258.00	4.50	3.50	18.10	14.60	18.10	13.60	3.50	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 2:45 PM	274.00	3.40	12.00	12.00	0.00	13.10	12.00	2.90	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 3:00 PM	227.00	3.00	5.40	16.50	11.10	16.50	22.00	5.40	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 3:15 PM	251.00	3.50	5.30	17.70	12.40	17.70	13.20	5.30	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 3:30 PM	271.00	2.80	12.70	13.80	1.10	18.90	13.80	7.20	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 3:45 PM	292.00	3.60	12.90	14.60	1.70	18.50	14.60	6.80	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 4:00 PM	257.00	4.30	10.30	18.60	8.30	18.60	19.50	10.30	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 4:15 PM	285.00	4.20	14.30	17.10	2.80	0.00	17.10	11.00	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 4:30 PM	281.00	4.40	12.50	14.50	2.00	15.40	14.50	11.00	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 4:45 PM	273.00	3.70	11.90	14.40	2.50	14.30	14.40	10.70	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 5:00 PM	266.00	2.20	13.30	14.80	1.50	14.80	15.30	13.30	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 5:15 PM	266.00	3.30	13.30	12.00	0.00	12.00	15.90	13.30	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 5:30 PM	270.00	3.20	10.70	14.60	3.90	11.10	14.60	11.80	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 5:45 PM	270.00	2.30	11.40	14.10	2.70	12.40	14.10	11.60	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 6:00 PM	276.00	2.90	10.80	14.40	3.60	12.50	14.40	12.00	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 6:15 PM	279.00	2.90	11.90	14.70	2.80	14.40	14.70	14.50	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 6:30 PM	270.00	2.30	9.90	16.10	6.20	12.90	16.10	15.40	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 6:45 PM	257.00	2.80	17.60	12.20	0.00	12.20	16.60	17.60	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 7:00 PM	216.00	4.10	20.20	13.30	0.00	13.30	17.30	20.20	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 7:15 PM	258.00	3.00	23.20	12.90	0.00	12.90	17.60	23.20	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 7:30 PM	254.00	2.90	26.30	13.70	0.00	13.70	17.50	26.30	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 7:45 PM	226.00	4.40	29.00	14.30	0.00	14.30	18.30	29.00	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 8:00 PM	223.00	3.80	32.80	14.50	0.00	14.50	19.70	32.80	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 8:15 PM	213.00	3.40	36.40	13.40	0.00	13.40	20.40	36.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 8:30 PM	240.00	2.60	39.00	13.60	0.00	13.60	21.00	39.00	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 8:45 PM	225.00	2.60	42.90	13.30	0.00	13.30	20.40	42.90	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 9:00 PM	234.00	1.50	29.70	11.40	0.00	11.40	18.00	29.70	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 9:15 PM	248.00	1.20	27.30	10.60	0.00	10.60	17.40	27.30	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 9:30 PM	248.00	1.90	26.10	9.90	0.00	9.90	16.60	26.10	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 9:45 PM	260.00	1.60	27.80	9.80	0.00	9.80	17.00	27.80	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 10:00 PM	261.00	1.40	32.00	12.40	0.00	12.40	18.40	32.00	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 10:15 PM	252.00	1.70	42.20	14.20	0.00	14.20	20.40	42.20	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 10:30 PM	253.00	1.40	45.10	15.90	0.00	15.90	22.00	45.10	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 10:45 PM	239.00	1.50	50.00	15.90	0.00	15.90	23.20	50.00	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 11:00 PM	230.00	2.40	55.50	15.30	0.00	15.30	24.00	55.50	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 11:15 PM	242.00	1.90	55.30	16.60	0.00	16.60	24.40	55.30	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 11:30 PM	263.00	2.30	55.60	14.90	0.00	14.90	22.80	55.60	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/15 11:45 PM	0.00	0.00	0.00	0.00	0.00	14.60	23.00	60.20	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 12:00 AM	299.00	1.20	7.20	23.00	15.80	16.20	23.00	60.80	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 12:15 AM	0.00	0.00	0.00	0.00	0.00	17.10	20.90	59.40	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 12:30 AM	262.00	2.20	58.70	0.00	0.00	0.00	20.20	58.70	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 12:45 AM	265.00	1.90	58.10	13.20	0.00	13.20	19.80	58.10	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 1:00 AM	271.00	2.30	6.50	19.00	12.50	12.50	19.00	59.90	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 1:15 AM	281.00	2.30	6.70	18.90	12.20	13.10	18.90	62.10	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 1:30 AM	307.00	2.40	7.00	18.70	11.70	13.80	18.70	65.70	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 1:45 AM	318.00	3.50	6.80	18.70	11.90	15.10	18.70	69.70	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 2:00 AM	319.00	3.50	6.90	18.60	11.70	15.20	18.60	70.10	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 2:15 AM	328.00	3.60	7.60	20.90	13.30	18.50	20.90	73.40	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 2:30 AM	337.00	4.10	7.50	21.90	14.40	18.90	21.90	74.60	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 2:45 AM	347.00	6.40	7.70	20.90	13.20	17.20	20.90	68.20	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 3:00 AM	348.00	7.90	5.80	10.20	4.40	12.60	10.20	29.30	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 3:15 AM	347.00	6.50	4.90	9.50	4.60	9.20	9.50	12.30	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 3:30 AM	348.00	8.40	4.80	10.20	5.40	8.10	10.20	8.70	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 3:45 AM	350.00	7.20	4.40	10.00	5.60	0.00	10.00	4.90	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/21/15 4:00 AM	344.00	8.00	4.20	10.00	5.80	0.00	10.00	3.80	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 4:15 AM	348.00	8.20	4.30	9.80	5.50	0.00	9.80	3.30	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 4:30 AM	354.00	8.00	4.50	10.00	5.50	8.50	10.00	3.60	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 4:45 AM	1.00	7.60	7.80	4.30	0.00	7.80	10.50	4.30	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 5:00 AM	359.00	7.90	4.80	11.40	6.60	9.90	11.40	6.40	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 5:15 AM	3.00	7.60	8.70	7.90	0.00	8.70	12.00	7.90	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 5:30 AM	5.00	7.80	8.10	8.10	0.00	8.10	11.80	8.10	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 5:45 AM	5.00	6.70	6.80	6.60	0.00	6.80	10.70	6.60	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 6:00 AM	6.00	8.40	10.70	4.90	0.00	10.70	12.40	4.90	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 6:15 AM	13.00	5.50	5.90	4.60	0.00	5.90	10.10	4.60	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 6:30 AM	356.00	6.20	3.80	12.40	8.60	6.90	12.40	6.10	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 6:45 AM	355.00	7.40	3.70	11.70	8.00	21.80	11.70	8.80	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 7:00 AM	355.00	7.20	3.60	10.20	6.60	14.70	10.20	7.70	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 7:15 AM	354.00	8.00	3.20	10.50	7.30	17.50	10.50	7.10	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 7:30 AM	6.00	6.40	12.90	5.60	0.00	12.90	9.80	5.60	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 7:45 AM	357.00	5.90	3.10	9.10	6.00	4.10	9.10	5.30	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 8:00 AM	2.00	5.90	4.20	5.20	1.00	4.20	14.30	5.20	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 8:15 AM	13.00	5.70	4.20	5.10	0.90	4.20	21.60	5.10	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 8:30 AM	4.00	6.90	5.70	4.90	0.00	5.70	14.20	4.90	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 8:45 AM	354.00	6.80	3.20	11.70	8.50	5.90	11.70	5.70	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 9:00 AM	5.00	7.30	7.10	4.70	0.00	7.10	10.70	4.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 9:15 AM	4.00	5.70	19.40	4.40	0.00	19.40	9.00	4.40	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 9:30 AM	7.00	5.70	5.70	4.20	0.00	5.70	8.30	4.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 9:45 AM	6.00	6.60	5.00	4.30	0.00	5.00	9.50	4.30	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 10:00 AM	4.00	6.70	6.50	2.90	0.00	6.50	8.30	2.90	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 10:15 AM	349.00	7.20	2.90	7.30	4.40	6.70	7.30	2.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 10:30 AM	352.00	5.20	3.20	6.60	3.40	5.90	6.60	2.50	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 10:45 AM	353.00	5.90	3.20	5.70	2.50	11.50	5.70	2.10	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 11:00 AM	348.00	5.00	3.60	5.90	2.30	7.60	5.90	2.90	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 11:15 AM	353.00	5.60	3.70	6.00	2.30	8.90	6.00	1.80	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 11:30 AM	5.00	7.60	6.90	1.80	0.00	6.90	6.40	1.80	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 11:45 AM	20.00	6.80	6.70	1.70	0.00	6.70	6.70	1.70	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 12:00 PM	26.00	6.00	5.80	1.70	0.00	5.80	6.90	1.70	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 12:15 PM	33.00	6.00	8.70	0.80	0.00	8.70	4.70	0.80	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 12:30 PM	37.00	6.60	9.20	0.70	0.00	9.20	4.10	0.70	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 12:45 PM	37.00	6.20	6.70	0.70	0.00	6.70	3.90	0.70	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 1:00 PM	39.00	5.90	7.30	1.50	0.00	7.30	7.40	1.50	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 1:15 PM	35.00	6.50	8.40	1.00	0.00	8.40	2.90	1.00	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 1:30 PM	61.00	6.10	9.20	0.90	0.00	9.20	2.90	0.90	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 1:45 PM	31.00	4.30	8.50	0.90	0.00	8.50	4.80	0.90	26.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 2:00 PM	40.00	4.80	14.80	1.10	0.00	14.80	5.80	1.10	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 2:15 PM	25.00	3.80	27.00	2.00	0.00	27.00	4.40	2.00	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 2:30 PM	47.00	5.00	18.30	1.70	0.00	18.30	4.80	1.70	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 2:45 PM	40.00	4.90	19.50	1.40	0.00	19.50	4.10	1.40	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 3:00 PM	45.00	3.80	12.00	1.20	0.00	12.00	4.30	1.20	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 3:15 PM	49.00	4.80	11.30	1.10	0.00	11.30	4.00	1.10	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 3:30 PM	99.00	2.30	5.40	9.60	4.20	17.50	5.40	1.10	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 3:45 PM	124.00	3.80	7.30	8.00	0.70	20.40	7.30	2.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 4:00 PM	112.00	3.30	7.70	15.60	7.90	17.90	7.70	1.30	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 4:15 PM	78.00	2.50	13.00	1.30	0.00	13.00	14.60	1.30	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 4:30 PM	63.00	3.10	16.80	2.30	0.00	16.80	12.40	2.30	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 4:45 PM	79.00	3.20	17.10	6.10	0.00	17.10	11.00	6.10	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 5:00 PM	116.00	3.90	14.10	10.20	0.00	30.10	14.10	11.70	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 5:15 PM	87.00	2.40	28.20	9.70	0.00	28.20	11.50	9.70	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 5:30 PM	82.00	3.30	21.70	9.20	0.00	21.70	11.40	9.20	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 5:45 PM	69.00	3.40	41.70	11.30	0.00	41.70	12.40	11.30	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 6:00 PM	107.00	1.60	12.80	12.30	0.00	25.10	12.80	13.80	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 6:15 PM	138.00	2.10	144.70	8.50	0.00	17.60	144.70	11.70	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 6:30 PM	154.00	2.50	19.10	16.30	0.00	30.30	19.10	11.70	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 6:45 PM	193.00	2.30	16.80	29.50	12.70	29.50	30.10	16.80	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 7:00 PM	102.00	0.90	34.20	13.40	0.00	22.30	34.20	16.20	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 7:15 PM	36.00	0.90	57.00	15.00	0.00	57.00	19.60	15.00	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 7:30 PM	346.00	0.70	14.10	21.50	7.40	34.00	21.50	18.30	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 7:45 PM	154.00	0.90	18.90	16.10	0.00	34.20	18.90	17.50	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 8:00 PM	62.00	3.00	34.70	17.20	0.00	34.70	20.00	17.20	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 8:15 PM	84.00	2.80	37.70	11.30	0.00	37.70	17.90	11.30	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 8:30 PM	78.00	3.50	30.40	11.00	0.00	30.40	28.30	11.00	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 8:45 PM	132.00	3.50	22.10	9.40	0.00	39.80	22.10	11.40	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 9:00 PM	131.00	2.90	30.70	27.10	0.00	0.00	30.70	16.40	27.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 9:15 PM	134.00	2.90	29.80	21.30	0.00	16.90	29.80	21.30	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 9:30 PM	133.00	2.40	30.10	13.20	0.00	20.10	30.10	28.50	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 9:45 PM	133.00	2.60	26.90	16.60	0.00	37.10	26.90	22.10	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 10:00 PM	139.00	2.80	23.80	10.50	0.00	52.40	23.80	20.60	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 10:15 PM	108.00	2.40	22.00	11.80	0.00	21.70	22.00	25.20	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 10:30 PM	89.00	1.50	32.20	24.40	0.00	32.20	22.70	24.40	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 10:45 PM	160.00	1.40	22.20	10.10	0.00	16.90	22.20	24.10	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 11:00 PM	130.00	1.90	32.00	9.70	0.00	18.10	32.00	27.70	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 11:15 PM	194.00	1.10	30.80	11.60	0.00	11.60	26.40	30.80	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 11:30 PM	183.00	1.80	47.30	18.00	0.00	18.00	45.90	47.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/15 11:45 PM	147.00	0.70	31.30	7.50	0.00	0.00	31.30	38.10	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 12:00 AM	164.00	2.00	34.70	10.40	0.00	19.40	34.70	41.80	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 12:15 AM	189.00	1.70	42.90	23.50	0.00	23.50	31.80	42.90	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 12:30 AM	196.00	1.80	54.10	24.30	0.00	24.30	45.80	54.10	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 12:45 AM	184.00	2.00	51.30	32.20	0.00	32.20	51.20	51.30	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 1:00 AM	170.00	1.50	46.40	14.40	0.00	30.70	46.40	52.00	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 1:15 AM	197.00	2.00	45.60	42.50	0.00	42.50	47.90	45.60	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 1:30 AM	198.00	1.90	41.20	26.70	0.00	26.70	41.20	41.20	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 1:45 AM	198.00	1.70	37.70	24.60	0.00	24.60	39.00	37.70	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 2:00 AM	217.00	2.10	36.10	23.60	0.00	23.60	35.00	36.10	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 2:15 AM	198.00	1.50	37.10	21.00	0.00	21.00	31.70	37.10	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 2:30 AM	165.00	1.20	32.20	12.70	0.00	23.50	32.20	34.00	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 2:45 AM	203.00	1.60	32.20	24.50	0.00	24.50	30.90	32.20	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 3:00 AM	218.00	2.30	30.80	22.50	0.00	22.50	30.70	30.80	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 3:15 AM	198.00	1.80	29.80	19.20	0.00	19.20	28.20	29.80	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 3:30 AM	194.00	1.30	29.90	21.20	0.00	21.20	27.30	29.90	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 3:45 AM	207.00	1.40	30.50	0.00	0.00	0.00	28.00	30.50	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 4:00 AM	217.00	1.30	30.90	19.80	0.00	19.80	27.30	30.90	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 4:15 AM	198.00	1.10	31.70	19.60	0.00	19.60	27.80	31.70	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 4:30 AM	210.00	1.60	33.10	20.80	0.00	20.80	29.40	33.10	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 4:45 AM	157.00	0.70	30.60	11.50	0.00	21.80	30.60	34.70	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 5:00 AM	213.00	1.00	35.90	22.30	0.00	22.30	30.70	35.90	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/22/15 5:15 AM	184.00	0.60	36.50	0.00	0.00	0.00	30.70	36.50	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 5:30 AM	197.00	1.40	37.60	24.20	0.00	24.20	31.40	37.60	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 5:45 AM	214.00	1.30	38.20	24.80	0.00	24.80	33.70	38.20	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 6:00 AM	229.00	2.20	38.30	24.50	0.00	24.50	32.90	38.30	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 6:15 AM	237.00	2.60	39.50	23.70	0.00	23.70	32.40	39.50	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 6:30 AM	259.00	2.80	40.20	23.00	0.00	23.00	31.60	40.20	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 6:45 AM	241.00	2.20	40.40	22.40	0.00	22.40	31.30	40.40	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 7:00 AM	219.00	1.10	40.20	23.80	0.00	23.80	31.70	40.20	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 7:15 AM	167.00	1.00	33.10	12.80	0.00	26.70	33.10	38.10	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 7:30 AM	245.00	1.10	37.30	28.80	0.00	28.80	33.40	37.30	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 7:45 AM	218.00	1.10	38.20	41.50	3.30	41.50	41.20	38.20	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 8:00 AM	267.00	1.40	37.20	41.90	4.70	41.90	38.30	37.20	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 8:15 AM	309.00	1.10	21.40	40.10	18.70	47.70	40.10	37.50	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 8:30 AM	235.00	0.70	38.70	49.40	10.70	49.40	41.70	38.70	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 9:00 AM	269.00	1.00	37.20	83.70	46.50	83.70	44.40	37.20	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 9:15 AM	248.00	1.30	37.00	0.00	0.00	0.00	42.00	37.00	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 9:30 AM	322.00	1.10	22.70	48.40	25.70	54.00	48.40	31.90	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 9:45 AM	225.00	1.10	29.80	35.70	5.90	35.70	39.30	29.80	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 10:00 AM	325.00	1.10	15.90	75.50	59.60	35.90	75.50	28.50	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 10:15 AM	316.00	0.80	15.60	35.70	20.10	33.10	35.70	26.80	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 10:30 AM	303.00	1.50	16.70	35.10	18.40	33.30	35.10	25.60	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 10:45 AM	347.00	2.60	17.20	34.10	16.90	36.50	34.10	27.30	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 11:00 AM	351.00	2.00	12.20	120.60	108.40	376.00	120.60	22.30	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 11:15 AM	358.00	2.30	9.60	66.20	56.60	115.10	66.20	19.10	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 11:30 AM	259.00	0.60	17.30	35.40	18.10	35.40	31.70	17.30	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 11:45 AM	32.00	1.40	32.90	17.10	0.00	32.90	21.40	17.10	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 12:00 PM	39.00	2.00	1381.10	18.60	0.00	1381.10	21.30	18.60	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 12:15 PM	48.00	3.90	14.90	17.70	2.80	14.90	17.60	17.70	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 12:30 PM	26.00	5.30	20.80	14.50	0.00	20.80	168.90	14.50	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 12:45 PM	26.00	5.40	0.00	15.80	0.00	0.00	25.60	15.80	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 1:00 PM	78.00	2.20	32.00	17.30	0.00	32.00	80.30	17.30	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 1:15 PM	131.00	3.00	22.70	12.40	0.00	16.00	22.70	18.00	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 1:30 PM	109.00	4.20	28.30	16.90	0.00	52.10	28.30	16.30	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 1:45 PM	125.00	3.90	16.80	18.30	1.50	23.00	16.80	20.80	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 2:00 PM	118.00	5.10	25.80	18.50	0.00	81.80	25.80	17.70	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 2:15 PM	124.00	4.40	105.40	25.50	0.00	94.20	105.40	19.10	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 2:30 PM	117.00	5.20	24.60	17.10	0.00	26.70	24.60	154.60	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 2:45 PM	84.00	4.00	53.50	23.90	0.00	53.50	66.90	23.90	28.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 3:00 PM	103.00	2.60	66.90	22.70	0.00	68.00	66.90	25.00	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 3:15 PM	77.00	4.10	33.10	34.90	1.80	33.10	21.80	34.90	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 3:30 PM	78.00	2.60	25.40	33.90	8.50	25.40	21.40	33.90	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 3:45 PM	75.00	3.90	20.20	31.80	11.60	20.20	15.50	31.80	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 4:00 PM	83.00	3.20	22.10	36.60	14.50	22.10	223.90	36.60	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 4:15 PM	86.00	3.40	23.10	37.10	14.00	23.10	17.70	37.10	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 4:30 PM	113.00	4.10	21.40	15.10	0.00	37.00	21.40	36.20	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 4:45 PM	123.00	4.50	23.30	13.90	0.00	28.20	23.30	39.10	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 5:00 PM	78.00	4.60	42.30	41.90	0.00	42.30	28.90	41.90	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 5:15 PM	83.00	4.80	65.70	46.00	0.00	65.70	34.80	46.00	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 5:30 PM	77.00	3.50	60.70	54.30	0.00	60.70	42.90	54.30	39.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 5:45 PM	82.00	3.90	37.50	35.60	0.00	37.50	21.90	35.60	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 6:00 PM	81.00	4.90	34.70	36.20	1.50	34.70	25.40	36.20	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 6:15 PM	87.00	3.60	32.60	36.00	3.40	32.60	22.80	36.00	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 6:30 PM	79.00	4.30	0.00	33.10	0.00	0.00	19.60	33.10	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 6:45 PM	84.00	3.90	21.30	35.20	13.90	21.30	24.10	35.20	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 7:00 PM	84.00	3.60	17.30	32.80	15.50	17.30	17.80	32.80	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 7:15 PM	73.00	3.70	16.00	30.70	14.70	16.00	18.40	30.70	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 7:30 PM	71.00	3.70	18.30	32.40	14.10	18.30	20.30	32.40	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 7:45 PM	116.00	2.90	23.20	15.00	0.00	18.40	23.20	33.40	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 8:00 PM	89.00	2.10	11.10	40.10	29.00	11.10	20.90	40.10	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 8:15 PM	130.00	3.30	17.40	8.10	0.00	15.50	17.40	36.00	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 8:30 PM	127.00	3.20	54.90	8.80	0.00	14.80	54.90	36.50	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 8:45 PM	127.00	2.30	33.90	6.60	0.00	13.50	33.90	37.70	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 9:00 PM	140.00	1.60	25.30	9.10	0.00	35.00	25.30	36.40	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 9:15 PM	157.00	1.70	49.60	8.20	0.00	37.50	49.60	40.60	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 9:30 PM	152.00	1.50	22.40	15.30	0.00	0.00	22.40	37.40	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 9:45 PM	152.00	1.80	21.50	11.70	0.00	34.40	21.50	37.10	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 10:00 PM	155.00	1.70	30.30	14.70	0.00	39.40	30.30	36.50	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 10:15 PM	168.00	1.80	29.50	19.20	0.00	72.10	29.50	42.30	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 10:30 PM	169.00	1.90	27.30	12.50	0.00	36.60	27.30	42.50	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 10:45 PM	188.00	1.60	40.10	38.00	0.00	38.00	23.80	40.10	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 11:00 PM	169.00	1.70	24.60	11.70	0.00	27.50	24.60	47.20	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 11:15 PM	187.00	1.30	40.40	25.50	0.00	25.50	30.70	40.40	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 11:30 PM	207.00	2.00	42.30	31.40	0.00	31.40	28.70	42.30	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/15 11:45 PM	203.00	2.20	44.90	35.30	0.00	35.30	33.20	44.90	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 12:00 AM	197.00	1.50	40.60	0.00	0.00	0.00	32.20	40.60	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 12:15 AM	189.00	2.30	38.60	32.10	0.00	32.10	24.60	38.60	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 12:30 AM	180.00	1.60	37.30	27.20	0.00	27.20	24.90	37.30	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 12:45 AM	202.00	1.10	39.70	27.50	0.00	27.50	24.70	39.70	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 1:00 AM	185.00	0.70	38.00	24.50	0.00	24.50	24.00	38.00	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 1:15 AM	204.00	0.50	38.30	22.40	0.00	22.40	23.70	38.30	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 1:30 AM	179.00	1.20	22.30	12.40	0.00	18.80	22.30	39.80	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 1:45 AM	138.00	1.10	23.00	12.50	0.00	19.20	23.00	39.90	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 2:00 AM	155.00	0.90	25.40	12.40	0.00	24.20	25.40	40.00	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 2:15 AM	150.00	1.50	26.50	12.30	0.00	24.50	26.50	40.40	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 2:30 AM	131.00	1.80	28.90	12.70	0.00	25.00	28.90	41.20	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 2:45 AM	153.00	1.30	31.40	13.20	0.00	24.90	31.40	42.00	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 3:00 AM	173.00	0.30	33.40	15.20	0.00	45.80	33.40	44.00	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 3:15 AM	164.00	0.90	36.40	17.10	0.00	61.30	36.40	47.50	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 3:30 AM	171.00	1.10	40.20	15.30	0.00	38.60	40.20	49.00	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 3:45 AM	167.00	1.20	39.50	15.20	0.00	31.80	39.50	47.40	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 4:00 AM	177.00	1.10	39.20	16.90	0.00	33.80	39.20	47.80	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 4:15 AM	198.00	1.00	48.80	32.30	0.00	32.30	37.80	48.80	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 4:30 AM	200.00	0.90	45.80	40.50	0.00	40.50	37.90	45.80	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 4:45 AM	220.00	1.10	50.10	31.70	0.00	31.70	39.10	50.10	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 5:00 AM	211.00	1.10	46.90	27.60	0.00	27.60	36.10	46.90	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 5:15 AM	222.00	1.00	48.80	29.00	0.00	29.00	36.80	48.80	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 5:30 AM	225.00	1.30	57.10	30.50	0.00	30.50	37.30	57.10	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 5:45 AM	225.00	1.40	50.90	41.70	0.00	41.70	45.70	50.90	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 6:00 AM	224.00	1.50	51.30	31.60	0.00	31.60	45.70	51.30	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 6:15 AM	214.00	1.20	52.50	31.30	0.00	31.30	44.10	52.50	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 6:30 AM	209.00	1.00	50.80	29.30	0.00	29.30	42.20	50.80	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/23/15 6:45 AM	211.00	1.50	48.80	29.00	0.00	29.00	42.20	48.80	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 7:00 AM	227.00	1.80	48.50	28.80	0.00	28.80	48.10	48.50	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 7:15 AM	224.00	2.40	46.80	29.00	0.00	29.00	42.40	46.80	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 7:30 AM	227.00	2.60	45.90	30.30	0.00	30.30	43.00	45.90	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 7:45 AM	240.00	2.20	44.60	33.50	0.00	33.50	42.20	44.60	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 8:00 AM	238.00	2.30	44.80	36.70	0.00	36.70	41.60	44.80	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 8:15 AM	272.00	2.40	16.50	44.90	28.40	35.20	44.90	42.20	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 8:30 AM	262.00	1.80	38.30	31.30	0.00	31.30	37.70	38.30	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 8:45 AM	267.00	2.10	35.50	33.30	0.00	33.30	35.50	35.50	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 9:00 AM	252.00	1.30	33.20	38.90	5.70	38.90	34.80	33.20	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 9:15 AM	322.00	1.20	19.40	35.30	15.90	42.80	35.30	33.40	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 9:30 AM	296.00	1.40	19.60	36.50	16.90	43.60	36.50	29.70	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 9:45 AM	4.00	0.80	47.20	27.90	0.00	47.20	35.30	27.90	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 10:00 AM	339.00	1.20	18.00	45.10	27.10	44.90	45.10	27.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 10:15 AM	356.00	2.60	18.00	36.30	18.30	44.90	36.30	27.10	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 10:30 AM	355.00	3.80	24.10	36.70	12.60	58.60	36.70	29.40	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 10:45 AM	346.00	3.00	23.60	36.70	13.10	100.40	36.70	32.70	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 11:00 AM	3.00	2.50	49.30	30.60	0.00	49.30	32.10	30.60	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 11:15 AM	42.00	4.10	55.60	26.20	0.00	55.60	31.80	26.20	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 11:30 AM	33.00	4.50	16.90	24.50	7.60	16.90	34.60	24.50	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 11:45 AM	34.00	4.70	18.70	23.20	4.50	18.70	26.30	23.20	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 12:00 PM	23.00	3.10	19.60	22.00	2.40	19.60	21.00	22.00	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 12:15 PM	34.00	4.30	23.90	22.50	0.00	23.90	27.00	22.50	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 12:30 PM	74.00	3.90	23.50	27.00	3.50	23.50	35.10	27.00	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 12:45 PM	61.00	4.70	33.40	25.00	0.00	33.40	35.90	25.00	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 1:00 PM	59.00	5.00	19.70	30.50	10.80	19.70	31.40	30.50	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 1:15 PM	52.00	4.40	36.70	31.20	0.00	36.70	26.80	31.20	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 1:30 PM	60.00	4.30	43.50	28.20	0.00	43.50	25.00	28.20	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 1:45 PM	87.00	3.00	28.70	29.80	1.10	28.70	23.20	29.80	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 2:00 PM	105.00	3.70	21.80	19.00	0.00	33.10	21.80	27.10	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 2:15 PM	91.00	4.30	16.60	24.70	8.10	0.00	16.60	23.90	24.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 2:30 PM	120.00	5.00	17.80	20.00	2.20	21.10	17.80	26.20	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 2:45 PM	84.00	4.30	38.40	49.70	11.30	38.40	41.90	49.70	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 3:00 PM	113.00	5.10	35.00	17.10	0.00	45.40	35.00	31.00	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 3:15 PM	100.00	3.20	22.70	19.50	0.00	50.60	22.70	56.80	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 3:30 PM	102.00	3.90	20.10	22.80	2.70	36.10	20.10	34.50	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 3:45 PM	75.00	5.10	44.80	29.40	0.00	44.80	18.90	29.40	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 4:00 PM	75.00	4.70	24.80	30.00	5.20	24.80	18.40	30.00	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 4:15 PM	89.00	5.20	28.50	28.50	0.00	28.50	16.80	28.50	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 4:30 PM	78.00	4.20	16.60	37.20	20.60	16.60	23.70	37.20	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 4:45 PM	79.00	3.90	24.00	30.60	6.60	24.00	20.60	30.60	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 5:00 PM	73.00	4.80	41.80	27.70	0.00	41.80	21.80	27.70	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 5:15 PM	72.00	5.30	22.50	30.10	7.60	22.50	20.70	30.10	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 5:30 PM	87.00	3.80	20.70	31.90	11.20	20.70	20.50	31.90	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 5:45 PM	85.00	4.00	18.00	30.20	12.20	18.00	16.20	30.20	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 6:00 PM	80.00	3.90	23.70	29.40	5.70	23.70	18.10	29.40	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 6:15 PM	87.00	3.50	32.50	33.30	0.80	32.50	19.60	33.30	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 6:30 PM	104.00	3.60	20.90	20.90	0.00	56.30	20.90	38.10	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 6:45 PM	109.00	3.20	27.70	19.10	0.00	38.30	27.70	40.00	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 7:00 PM	84.00	2.60	40.90	33.80	0.00	40.90	23.00	33.80	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 7:15 PM	87.00	3.00	60.10	34.70	0.00	60.10	22.00	34.70	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 7:30 PM	97.00	2.80	37.00	26.20	0.00	45.20	37.00	45.90	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 7:45 PM	78.00	4.00	40.10	39.60	0.00	40.10	25.30	39.60	26.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 8:00 PM	80.00	2.60	36.70	38.80	2.10	36.70	26.40	38.80	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 8:15 PM	96.00	2.60	34.30	17.40	0.00	25.30	34.30	37.50	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 8:30 PM	92.00	2.10	37.10	16.50	0.00	30.90	37.10	45.80	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 8:45 PM	82.00	1.90	31.30	41.70	10.40	31.30	30.90	41.70	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 9:00 PM	92.00	1.90	31.50	17.30	0.00	0.00	31.50	43.50	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 9:15 PM	114.00	1.20	30.00	17.40	0.00	38.40	30.00	45.20	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 9:30 PM	133.00	2.70	31.70	19.60	0.00	44.40	31.70	48.90	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 9:45 PM	137.00	1.90	32.70	15.60	0.00	30.20	32.70	45.60	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 10:00 PM	139.00	1.60	34.40	17.20	0.00	37.90	34.40	42.20	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 10:15 PM	163.00	1.30	28.50	19.30	0.00	42.60	28.50	43.10	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 10:30 PM	169.00	1.20	31.50	16.90	0.00	29.50	31.50	43.10	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 10:45 PM	175.00	1.30	30.30	20.50	0.00	50.40	30.30	42.30	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 11:00 PM	157.00	1.90	35.80	27.50	0.00	86.70	35.80	46.20	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 11:15 PM	152.00	2.30	40.80	28.80	0.00	74.60	40.80	45.50	28.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 11:30 PM	157.00	1.70	42.90	38.10	0.00	124.40	42.90	51.20	38.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/15 11:45 PM	167.00	1.30	52.90	33.90	0.00	69.00	52.90	59.70	33.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 12:00 AM	165.00	1.40	45.30	24.30	0.00	40.00	45.30	58.10	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 12:15 AM	171.00	1.80	47.60	28.10	0.00	46.10	47.60	56.40	28.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 12:30 AM	190.00	1.70	59.30	51.50	0.00	51.50	43.20	59.30	25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 12:45 AM	196.00	1.90	64.40	49.60	0.00	49.60	46.60	64.40	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 1:00 AM	226.00	1.70	52.90	44.90	0.00	44.90	53.90	52.90	28.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 1:15 AM	209.00	1.10	52.00	49.40	0.00	49.40	54.00	52.00	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 1:30 AM	222.00	1.10	56.10	33.20	0.00	33.20	39.90	56.10	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 1:45 AM	199.00	1.50	57.00	44.90	0.00	44.90	46.30	57.00	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 2:00 AM	199.00	1.50	57.70	43.10	0.00	43.10	47.60	57.70	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 2:15 AM	196.00	1.50	66.90	44.10	0.00	44.10	51.30	66.90	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 2:30 AM	197.00	1.20	68.70	43.70	0.00	43.70	55.10	68.70	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 2:45 AM	197.00	1.60	69.60	45.20	0.00	45.20	59.10	69.60	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 3:00 AM	207.00	1.20	69.10	44.80	0.00	44.80	57.60	69.10	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 3:15 AM	189.00	1.70	66.40	43.50	0.00	43.50	57.00	66.40	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 3:30 AM	217.00	1.20	68.60	42.30	0.00	42.30	60.70	68.60	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 3:45 AM	224.00	1.50	69.40	54.90	0.00	54.90	66.30	69.40	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 4:00 AM	219.00	0.80	69.10	49.30	0.00	49.30	63.90	69.10	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 4:15 AM	188.00	0.50	70.20	42.80	0.00	42.80	60.20	70.20	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 4:30 AM	210.00	0.70	72.50	41.10	0.00	41.10	57.00	72.50	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 4:45 AM	193.00	1.10	71.20	41.60	0.00	41.60	58.50	71.20	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 5:00 AM	170.00	1.10	58.40	22.40	0.00	38.10	58.40	67.20	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 5:15 AM	231.00	1.20	64.30	39.20	0.00	39.20	54.10	64.30	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 5:30 AM	203.00	0.90	65.80	36.30	0.00	36.30	52.00	65.80	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 5:45 AM	169.00	2.50	51.40	20.70	0.00	36.00	51.40	63.00	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 6:00 AM	187.00	1.00	64.60	37.00	0.00	37.00	51.00	64.60	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 6:15 AM	201.00	0.80	66.50	37.10	0.00	37.10	51.80	66.50	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 6:30 AM	181.00	1.20	68.80	37.70	0.00	37.70	51.80	68.80	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 6:45 AM	197.00	1.50	68.80	41.40	0.00	41.40	53.80	68.80	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 7:00 AM	206.00	1.30	67.60	41.70	0.00	41.70	53.60	67.60	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 7:15 AM	216.00	0.60	62.90	36.30	0.00	36.30	50.60	62.90	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 7:30 AM	224.00	1.70	58.40	36.90	0.00	36.90	50.80	58.40	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 7:45 AM	185.00	1.20	57.00	39.00	0.00	39.00	48.10	57.00	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/24/15 8:00 AM	211.00	1.00	54.50	41.20	0.00	41.20	46.40	54.50	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 8:15 AM	193.00	1.80	54.50	41.20	0.00	41.20	46.40	54.50	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 8:30 AM	220.00	2.20	47.80	43.80	0.00	43.80	41.60	47.80	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 8:45 AM	240.00	2.30	47.80	40.00	0.00	40.00	36.20	47.80	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 9:00 AM	235.00	3.30	35.50	0.00	0.00	0.00	33.40	35.50	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 9:15 AM	196.00	3.00	31.70	38.50	6.80	38.50	33.20	31.70	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 9:30 AM	180.00	3.50	23.90	33.10	9.20	33.10	24.10	23.90	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 9:45 AM	225.00	3.80	17.90	24.00	6.10	24.00	21.90	17.90	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 10:00 AM	233.00	3.60	14.80	16.60	1.80	16.60	19.30	14.80	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 10:15 AM	249.00	3.80	13.30	16.70	3.40	16.70	62.20	13.30	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 10:30 AM	213.00	4.30	12.00	14.30	2.30	14.30	18.40	12.00	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 10:45 AM	187.00	3.50	11.60	15.60	4.00	15.60	25.60	11.60	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 11:00 AM	228.00	2.70	10.70	13.70	3.00	13.70	25.70	10.70	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 11:15 AM	207.00	4.60	10.50	12.80	2.30	12.80	15.10	10.50	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 11:30 AM	177.00	5.10	16.50	10.80	0.00	13.60	16.50	9.90	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 11:45 AM	184.00	3.70	10.30	13.20	2.90	13.20	19.30	10.30	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 12:00 PM	216.00	3.70	10.20	13.50	3.30	13.50	26.60	10.20	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 12:15 PM	221.00	4.50	10.10	14.30	4.20	14.30	41.10	10.10	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 12:30 PM	165.00	2.80	22.00	11.40	0.00	14.80	22.00	10.30	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 12:45 PM	239.00	2.90	27.50	14.70	0.00	14.70	20.30	27.50	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 1:00 PM	224.00	3.10	10.90	13.50	2.60	13.50	22.80	10.90	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 1:15 PM	203.00	5.50	16.00	15.50	0.00	15.50	23.80	16.00	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 1:30 PM	220.00	4.00	11.40	13.40	2.00	13.40	21.30	11.40	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 1:45 PM	177.00	6.40	22.90	10.40	0.00	17.00	22.90	13.20	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 2:00 PM	189.00	4.30	12.90	13.50	0.60	13.50	25.80	12.90	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 2:15 PM	203.00	4.20	14.60	13.70	0.00	13.70	34.40	14.60	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 2:30 PM	215.00	4.70	16.10	14.00	0.00	14.00	24.10	16.10	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 2:45 PM	184.00	6.20	11.70	14.00	2.30	14.00	22.90	11.70	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 3:00 PM	195.00	5.70	12.30	13.30	1.00	13.30	45.10	12.30	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 3:15 PM	193.00	6.30	13.20	13.90	0.70	13.90	23.30	13.20	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 3:30 PM	182.00	5.20	13.10	13.60	0.50	13.60	24.20	13.10	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 3:45 PM	203.00	6.20	12.60	14.00	1.40	14.00	41.10	12.60	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 4:00 PM	186.00	7.00	13.40	13.70	0.30	13.70	147.40	13.40	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 4:15 PM	185.00	6.50	13.40	14.00	0.60	14.00	36.40	13.40	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 4:30 PM	202.00	7.40	13.50	0.00	0.00	0.00	26.40	13.50	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 4:45 PM	195.00	5.70	14.40	17.70	3.30	17.70	0.00	14.40	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 5:00 PM	197.00	5.30	16.40	0.00	0.00	0.00	29.70	16.40	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 5:15 PM	212.00	3.60	16.10	0.00	0.00	0.00	29.90	16.10	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 5:30 PM	182.00	4.90	16.50	13.90	0.00	13.90	30.20	16.50	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 5:45 PM	186.00	5.50	0.00	13.80	0.00	13.80	29.80	0.00	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 6:00 PM	206.00	3.80	16.70	11.60	0.00	11.60	27.00	16.70	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 6:15 PM	208.00	4.20	15.80	14.10	0.00	14.10	25.00	15.80	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 6:30 PM	205.00	4.10	16.10	13.80	0.00	13.80	25.70	16.10	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 6:45 PM	208.00	4.00	16.90	13.80	0.00	13.80	26.50	16.90	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 7:00 PM	222.00	4.60	18.00	13.60	0.00	13.60	26.50	18.00	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 7:15 PM	214.00	4.70	18.40	13.00	0.00	13.00	27.20	18.40	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 7:30 PM	211.00	3.10	17.70	12.10	0.00	12.10	25.70	17.70	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 7:45 PM	201.00	4.50	20.90	14.00	0.00	14.00	26.50	20.90	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 8:00 PM	203.00	3.90	22.80	15.80	0.00	15.80	28.30	22.80	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 8:15 PM	206.00	2.50	24.80	19.30	0.00	19.30	31.70	24.80	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 8:30 PM	205.00	2.90	26.40	23.60	0.00	23.60	33.50	26.40	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 8:45 PM	201.00	2.70	25.40	20.90	0.00	20.90	31.80	25.40	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 9:00 PM	205.00	2.80	26.00	19.10	0.00	19.10	30.50	26.00	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 9:15 PM	199.00	1.90	25.90	19.20	0.00	19.20	30.20	25.90	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 9:30 PM	193.00	2.50	27.70	20.10	0.00	20.10	31.60	27.70	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 9:45 PM	193.00	2.30	29.70	20.40	0.00	20.40	32.70	29.70	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 10:00 PM	198.00	2.50	31.20	19.70	0.00	19.70	34.60	31.20	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 10:15 PM	196.00	2.20	33.50	21.30	0.00	21.30	34.90	33.50	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 10:30 PM	197.00	1.90	35.70	22.40	0.00	22.40	36.30	35.70	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 10:45 PM	198.00	2.70	37.10	21.60	0.00	21.60	37.80	37.10	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 11:00 PM	186.00	2.80	39.50	24.10	0.00	24.10	40.70	39.50	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 11:15 PM	188.00	2.20	42.00	24.60	0.00	24.60	42.10	42.00	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 11:30 PM	202.00	2.20	43.30	24.30	0.00	24.30	43.00	43.30	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/15 11:45 PM	198.00	2.90	46.30	27.60	0.00	27.60	47.20	46.30	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 12:00 AM	193.00	2.40	48.80	30.90	0.00	30.90	51.10	48.80	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 12:15 AM	199.00	2.70	56.00	31.30	0.00	31.30	51.40	56.00	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 12:30 AM	202.00	3.10	54.10	27.90	0.00	27.90	49.00	54.10	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 12:45 AM	191.00	3.20	54.50	24.90	0.00	24.90	48.00	54.50	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 1:00 AM	195.00	3.00	60.10	24.30	0.00	24.30	48.00	60.10	14.90	0.00	0.00	0.00	0.00	0.60	0.00	0.00
7/25/15 1:15 AM	196.00	3.30	57.10	26.90	0.00	26.90	48.00	57.10	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 1:30 AM	190.00	3.90	57.90	26.70	0.00	26.70	46.90	57.90	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 1:45 AM	202.00	3.80	54.10	22.90	0.00	22.90	44.20	54.10	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 2:00 AM	201.00	3.70	51.60	22.60	0.00	22.60	43.30	51.60	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 2:15 AM	192.00	2.80	51.90	22.30	0.00	22.30	43.50	51.90	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 2:30 AM	193.00	2.90	51.50	21.10	0.00	21.10	44.20	51.50	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 2:45 AM	196.00	2.50	50.90	22.60	0.00	22.60	43.00	50.90	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 3:00 AM	199.00	2.90	50.70	22.40	0.00	22.40	43.20	50.70	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 3:15 AM	198.00	3.30	50.00	22.50	0.00	22.50	42.50	50.00	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 3:30 AM	209.00	3.50	49.90	23.40	0.00	23.40	42.50	49.90	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 3:45 AM	210.00	3.10	49.30	22.90	0.00	22.90	42.00	49.30	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 4:00 AM	206.00	2.70	49.70	22.20	0.00	22.20	41.40	49.70	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 4:15 AM	195.00	2.30	50.20	21.60	0.00	21.60	40.90	50.20	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 4:30 AM	201.00	1.80	49.30	20.80	0.00	20.80	39.30	49.30	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 4:45 AM	193.00	1.70	48.90	20.40	0.00	20.40	39.00	48.90	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 5:00 AM	192.00	2.10	47.90	20.90	0.00	20.90	38.50	47.90	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 5:15 AM	196.00	2.70	47.60	21.10	0.00	21.10	37.80	47.60	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 5:30 AM	194.00	2.80	47.70	21.40	0.00	21.40	37.80	47.70	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 5:45 AM	200.00	2.40	47.70	21.90	0.00	21.90	37.80	47.70	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 6:00 AM	207.00	2.90	47.80	21.80	0.00	21.80	37.20	47.80	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 6:15 AM	221.00	3.60	48.40	23.20	0.00	23.20	37.50	48.40	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 6:30 AM	206.00	2.70	48.60	22.90	0.00	22.90	36.80	48.60	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 6:45 AM	211.00	2.80	47.70	22.70	0.00	22.70	36.10	47.70	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 7:00 AM	213.00	2.70	46.20	22.60	0.00	22.60	36.00	46.20	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 7:15 AM	207.00	3.50	45.20	21.40	0.00	21.40	34.40	45.20	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 7:30 AM	212.00	2.60	45.00	22.30	0.00	22.30	34.00	45.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 7:45 AM	228.00	2.60	43.40	21.30	0.00	21.30	33.70	43.40	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 8:00 AM	224.00	3.90	40.20	22.00	0.00	22.00	32.00	40.20	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 8:15 AM	225.00	3.60	36.90	21.90	0.00	21.90	30.10	36.90	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 8:30 AM	228.00	3.10	35.60	21.80	0.00	21.80	28.70	35.60	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 8:45 AM	246.00	5.40	33.50	22.20	0.00	22.20	27.70	33.50	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 9:00 AM	241.00	5.00	32.60	21.90	0.00	21.90	27.40	32.60	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/25/15 9:15 AM	241.00	4.00	30.30	23.20	0.00	23.20	27.70	30.30	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 9:30 AM	243.00	4.40	30.30	25.00	0.00	25.00	27.50	30.30	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 9:45 AM	235.00	4.30	31.90	27.90	0.00	27.90	29.10	31.90	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 10:00 AM	268.00	3.80	30.80	27.80	0.00	27.80	28.20	30.80	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 10:15 AM	251.00	4.30	29.90	27.70	0.00	27.70	27.80	29.90	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 10:30 AM	251.00	4.30	29.30	28.40	0.00	28.40	27.60	29.30	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 10:45 AM	252.00	4.20	30.40	31.60	1.20	31.60	27.70	30.40	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 11:00 AM	239.00	4.40	31.30	31.60	0.30	31.60	27.80	31.30	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 11:15 AM	294.00	4.30	17.40	27.50	10.10	31.30	27.50	30.50	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 11:30 AM	245.00	2.10	29.90	33.00	3.10	33.00	28.30	29.90	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 11:45 AM	224.00	2.60	32.00	32.80	0.80	32.80	32.60	32.00	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 12:00 PM	248.00	5.00	31.70	35.90	4.20	35.90	29.50	31.70	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 12:15 PM	306.00	2.80	18.60	29.30	10.70	32.10	29.30	29.00	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 12:30 PM	224.00	2.20	28.80	31.70	2.90	31.70	27.30	28.80	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 12:45 PM	286.00	2.20	17.80	27.00	9.20	30.60	27.00	27.80	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 1:00 PM	346.00	1.70	17.10	24.90	7.80	32.10	24.90	24.00	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 1:15 PM	317.00	1.80	18.40	23.70	5.30	30.60	23.70	23.00	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 1:30 PM	219.00	3.90	26.20	32.20	6.00	32.20	24.90	26.20	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 1:45 PM	162.00	0.70	25.70	19.50	0.00	31.50	25.70	25.20	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 2:00 PM	313.00	2.00	19.70	25.80	6.10	32.40	25.80	23.90	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 2:15 PM	67.00	5.60	34.30	21.80	0.00	34.30	26.80	21.80	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 2:30 PM	79.00	4.60	36.00	19.10	0.00	36.00	29.00	19.10	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 2:45 PM	79.00	4.10	31.40	18.10	0.00	31.40	27.50	18.10	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 3:00 PM	72.00	5.40	32.60	18.90	0.00	32.60	24.80	18.90	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 3:15 PM	20.00	8.50	61.60	29.30	0.00	61.60	35.90	29.30	33.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 3:30 PM	31.00	6.40	78.10	25.90	0.00	78.10	26.40	25.90	49.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 3:45 PM	24.00	7.70	43.20	35.90	0.00	43.20	30.80	35.90	29.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 4:00 PM	51.00	6.70	49.10	43.80	0.00	49.10	33.30	43.80	32.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 4:15 PM	47.00	5.40	42.30	52.50	10.20	42.30	37.70	52.50	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 4:30 PM	51.00	7.30	38.80	49.90	11.10	38.80	32.00	49.90	32.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 4:45 PM	37.00	7.10	34.60	59.10	24.50	34.60	31.30	59.10	29.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 5:00 PM	38.00	5.20	33.40	52.50	19.10	33.40	28.80	52.50	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 5:15 PM	28.00	6.00	34.10	56.50	22.40	34.10	28.00	56.50	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 5:30 PM	36.00	6.30	32.80	56.50	23.70	32.80	29.00	56.50	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 5:45 PM	28.00	6.40	48.10	71.90	23.80	48.10	31.40	71.90	27.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 6:00 PM	43.00	6.20	43.70	63.40	19.70	43.70	34.80	63.40	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 6:15 PM	49.00	5.70	39.60	73.60	34.00	39.60	38.60	73.60	24.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 6:30 PM	32.00	4.70	34.50	77.10	42.60	34.50	36.00	77.10	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 6:45 PM	55.00	4.40	32.60	77.60	45.00	32.60	36.80	77.60	24.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 7:00 PM	48.00	5.30	33.50	77.70	44.20	33.50	41.00	77.70	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 7:15 PM	29.00	5.90	26.30	72.50	46.20	26.30	42.20	72.50	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 7:30 PM	33.00	4.90	26.30	72.50	46.20	26.30	42.20	72.50	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 7:45 PM	35.00	4.30	28.00	75.70	47.70	28.00	36.60	75.70	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 8:00 PM	29.00	4.00	29.40	83.80	54.40	29.40	57.00	83.80	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 8:15 PM	29.00	5.00	40.70	99.20	58.50	40.70	62.70	99.20	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 8:30 PM	39.00	4.70	0.00	79.40	0.00	0.00	42.20	79.40	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 8:45 PM	41.00	4.40	31.30	95.50	64.20	31.30	51.50	95.50	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 9:00 PM	63.00	2.80	25.50	88.10	62.60	25.50	44.40	88.10	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 9:15 PM	26.00	3.30	25.50	59.50	34.00	25.50	39.10	59.50	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 9:30 PM	32.00	3.00	26.00	67.90	41.90	26.00	41.30	67.90	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 9:45 PM	28.00	3.90	20.50	63.20	42.70	20.50	42.10	63.20	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 10:00 PM	31.00	4.80	20.50	64.20	43.70	20.50	43.60	64.20	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 10:15 PM	30.00	4.50	18.30	48.00	29.70	18.30	38.70	48.00	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 10:30 PM	41.00	3.40	15.60	49.60	34.00	15.60	30.00	49.60	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 10:45 PM	44.00	3.50	24.80	51.90	27.10	24.80	32.10	51.90	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 11:00 PM	23.00	3.80	17.50	53.20	35.70	17.50	29.50	53.20	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 11:15 PM	4.00	3.40	16.80	54.40	37.60	16.80	27.80	54.40	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 11:30 PM	7.00	2.70	17.50	59.40	41.90	17.50	32.30	59.40	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/15 11:45 PM	18.00	2.90	19.30	65.30	46.00	19.30	34.00	65.30	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 12:00 AM	37.00	2.80	18.20	72.20	54.00	18.20	33.60	72.20	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 12:15 AM	289.00	0.60	11.80	30.20	18.40	19.30	30.20	79.60	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 12:30 AM	25.00	1.90	21.00	84.90	63.90	21.00	31.70	84.90	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 12:45 AM	359.00	0.70	11.90	30.20	18.30	18.60	30.20	99.10	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 1:00 AM	266.00	0.80	91.60	17.30	0.00	17.30	30.90	91.60	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 1:15 AM	255.00	1.40	82.30	0.00	0.00	0.00	31.60	82.30	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 1:30 AM	247.00	0.80	75.60	9.30	0.00	9.30	22.20	75.60	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 1:45 AM	234.00	1.30	44.90	7.20	0.00	7.20	16.60	44.90	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 2:00 AM	254.00	0.70	49.40	7.90	0.00	7.90	24.80	49.40	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 2:15 AM	49.00	2.20	13.50	35.40	21.90	13.50	25.20	35.40	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 2:30 AM	12.00	1.00	14.40	37.40	23.00	14.40	25.10	37.40	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 2:45 AM	191.00	0.40	42.70	0.00	0.00	0.00	27.70	42.70	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 3:00 AM	43.00	2.40	14.70	40.70	26.00	14.70	27.90	40.70	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 3:15 AM	309.00	0.70	9.70	17.90	8.20	12.50	17.90	28.30	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 3:30 AM	54.00	1.10	14.50	26.60	12.10	14.50	18.10	26.60	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 3:45 AM	209.00	0.80	20.30	0.00	0.00	0.00	20.00	20.30	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 4:00 AM	38.00	1.00	11.20	19.70	8.50	11.20	18.50	19.70	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 4:15 AM	45.00	1.90	11.80	20.90	9.10	11.80	18.80	20.90	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 4:30 AM	343.00	1.90	7.70	21.10	13.40	12.60	21.10	20.50	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 4:45 AM	261.00	0.80	21.70	12.30	0.00	12.30	22.70	21.70	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 5:00 AM	31.00	3.80	12.20	26.20	14.00	12.20	19.40	26.20	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 5:15 AM	44.00	3.80	10.30	24.90	14.60	10.30	17.40	24.90	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 5:30 AM	30.00	1.60	11.30	20.70	9.40	11.30	26.20	20.70	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 5:45 AM	42.00	3.20	10.90	18.50	7.60	10.90	17.10	18.50	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 6:00 AM	52.00	3.10	9.00	15.40	6.40	9.00	16.60	15.40	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 6:15 AM	63.00	2.10	9.00	14.90	5.90	9.00	15.50	14.90	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 6:30 AM	97.00	1.30	15.40	6.80	0.00	0.00	15.40	16.90	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 6:45 AM	152.00	1.30	15.80	6.70	0.00	8.40	15.80	16.10	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 7:00 AM	78.00	2.10	8.70	20.40	11.70	8.70	16.60	20.40	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 7:15 AM	64.00	1.90	8.50	25.60	17.10	8.50	17.10	25.60	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 7:30 AM	69.00	1.00	10.40	27.00	16.60	10.40	17.20	27.00	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 7:45 AM	53.00	1.40	15.50	22.80	7.30	15.50	19.30	22.80	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 8:00 AM	135.00	1.60	19.20	10.60	0.00	0.00	19.20	21.20	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 8:15 AM	73.00	3.40	12.70	15.00	2.30	12.70	16.30	15.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 8:30 AM	134.00	2.10	16.50	10.50	0.00	21.10	16.50	16.70	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 8:45 AM	113.00	1.90	14.10	22.30	8.20	32.30	14.10	10.90	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 9:00 AM	168.00	1.60	12.30	17.10	4.80	38.10	12.30	7.70	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 9:15 AM	85.00	1.10	18.80	4.20	0.00	18.80	10.80	4.20	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 9:30 AM	106.00	0.70	11.20	14.20	3.00	22.20	11.20	2.90	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 9:45 AM	148.00	1.50	13.40	13.80	0.40	17.40	13.40	5.50	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 10:00 AM	134.00	2.70	14.10	12.50	0.00	20.50	14.10	7.70	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 10:15 AM	146.00	1.70	13.90	12.90	0.00	19.90	13.90	11.30	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/26/15 10:30 AM	159.00	1.70	13.90	12.40	0.00	20.20	13.90	12.70	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 10:45 AM	125.00	2.30	15.40	12.90	0.00	21.10	15.40	13.90	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 11:00 AM	125.00	2.60	18.60	13.80	0.00	26.10	18.60	15.10	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 11:15 AM	59.00	3.70	23.10	13.60	0.00	23.10	18.60	13.60	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 11:30 AM	96.00	2.00	17.00	11.90	0.00	22.70	17.00	8.40	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 11:45 AM	107.00	2.60	19.80	11.40	0.00	0.00	19.80	9.00	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 12:00 PM	115.00	2.40	20.50	11.00	0.00	21.60	20.50	10.90	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 12:15 PM	137.00	2.50	21.00	12.10	0.00	26.80	21.00	12.30	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 12:30 PM	33.00	1.50	32.60	15.20	0.00	32.60	22.90	15.20	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 12:45 PM	161.00	1.00	28.20	10.60	0.00	40.10	28.20	24.40	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 1:00 PM	80.00	3.20	49.90	29.30	0.00	49.90	30.60	29.30	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 1:15 PM	139.00	2.60	24.10	11.70	0.00	43.90	24.10	27.60	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 1:30 PM	121.00	2.70	23.10	13.10	0.00	25.50	23.10	29.40	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 1:45 PM	54.00	2.50	23.80	31.00	7.20	23.80	23.90	31.00	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 2:00 PM	95.00	1.40	24.60	14.10	0.00	20.20	24.60	30.20	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 2:15 PM	49.00	2.00	0.00	35.20	0.00	0.00	24.80	35.20	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 2:30 PM	38.00	2.40	33.30	33.30	0.00	33.30	24.10	33.30	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 2:45 PM	6.00	4.40	18.40	44.70	26.30	18.40	25.40	44.70	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 3:00 PM	30.00	4.70	30.70	56.80	26.10	30.70	26.30	56.80	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 3:15 PM	37.00	4.80	0.00	57.20	0.00	0.00	32.40	57.20	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 3:30 PM	38.00	4.20	32.60	54.70	22.10	32.60	28.70	54.70	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 3:45 PM	43.00	3.50	33.40	57.10	23.70	33.40	45.00	57.10	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 4:00 PM	46.00	2.90	23.90	62.70	38.80	23.90	39.50	62.70	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 4:15 PM	40.00	3.70	44.90	67.70	22.80	44.90	32.50	67.70	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 4:30 PM	76.00	2.60	25.70	57.90	32.20	25.70	28.70	57.90	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 4:45 PM	32.00	3.70	21.40	51.60	30.20	21.40	24.70	51.60	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 5:00 PM	63.00	2.90	21.00	44.20	23.20	21.00	23.20	44.20	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 5:15 PM	117.00	2.10	37.90	25.40	0.00	54.50	37.90	57.80	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 5:30 PM	51.00	1.40	71.00	48.90	0.00	71.00	29.70	48.90	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 5:45 PM	55.00	1.80	50.70	49.50	0.00	50.70	31.90	49.50	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 6:00 PM	91.00	1.40	30.40	19.90	0.00	50.70	30.40	49.50	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 6:15 PM	58.00	2.90	35.10	60.00	24.90	35.10	54.40	60.00	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 6:30 PM	69.00	2.20	59.50	62.80	3.30	59.50	35.20	62.80	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 6:45 PM	31.00	3.00	41.10	61.40	20.30	41.10	42.50	61.40	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 7:00 PM	33.00	3.70	42.40	55.80	13.40	42.40	35.30	55.80	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 7:15 PM	32.00	3.40	28.70	51.00	22.30	28.70	30.50	51.00	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 7:30 PM	34.00	3.10	34.10	51.90	17.80	34.10	31.80	51.90	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 7:45 PM	36.00	3.10	33.50	57.90	24.40	33.50	36.40	57.90	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 8:00 PM	47.00	2.70	32.10	50.90	18.80	32.10	34.90	50.90	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 8:15 PM	54.00	3.40	0.00	72.70	0.00	0.00	36.90	72.70	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 8:30 PM	36.00	3.70	20.80	64.00	43.20	20.80	30.30	64.00	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 8:45 PM	34.00	3.30	19.70	69.20	49.50	19.70	28.90	69.20	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 9:00 PM	48.00	3.20	0.00	61.60	0.00	0.00	28.90	61.60	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 9:15 PM	51.00	3.20	21.50	63.00	41.50	21.50	31.60	63.00	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 9:30 PM	34.00	3.60	24.70	63.70	39.00	24.70	29.50	63.70	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 9:45 PM	41.00	3.80	0.00	62.70	0.00	0.00	26.50	62.70	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 10:00 PM	42.00	3.50	27.90	56.90	29.00	27.90	31.50	56.90	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 10:15 PM	38.00	2.60	25.80	56.70	30.90	25.80	30.60	56.70	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 10:30 PM	45.00	1.40	26.20	69.30	43.10	26.20	33.50	69.30	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 10:45 PM	56.00	1.40	0.00	66.70	0.00	0.00	30.00	66.70	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 11:00 PM	228.00	0.70	64.30	22.80	0.00	22.80	25.20	64.30	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 11:15 PM	77.00	2.20	23.50	64.40	40.90	23.50	26.90	64.40	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 11:30 PM	113.00	1.20	32.30	14.80	0.00	22.50	32.30	75.40	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/15 11:45 PM	111.00	0.90	40.80	14.40	0.00	38.50	40.80	70.50	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 12:00 AM	165.00	1.70	37.60	20.10	0.00	0.00	37.60	70.40	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 12:15 AM	162.00	1.00	33.40	19.30	0.00	0.00	33.40	69.20	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 12:30 AM	149.00	0.60	33.20	11.40	0.00	18.30	33.20	87.40	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 12:45 AM	186.00	0.80	106.10	18.70	0.00	18.70	35.50	106.10	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 1:00 AM	173.00	0.50	37.30	11.30	0.00	19.70	37.30	113.30	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 1:15 AM	219.00	0.90	110.40	22.80	0.00	22.80	39.60	110.40	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 1:30 AM	179.00	1.10	43.90	14.60	0.00	25.30	43.90	121.40	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 1:45 AM	199.00	0.80	144.90	29.10	0.00	29.10	47.60	144.90	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 2:00 AM	233.00	0.70	167.10	30.80	0.00	30.80	45.40	167.10	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 2:15 AM	313.00	1.50	14.80	48.70	33.90	32.60	48.70	176.90	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 2:30 AM	257.00	0.70	188.50	29.70	0.00	29.70	46.40	188.50	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 2:45 AM	175.00	0.90	42.30	13.40	0.00	27.20	42.30	167.10	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 3:00 AM	188.00	0.50	163.90	29.60	0.00	29.60	43.40	163.90	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 3:15 AM	251.00	0.60	168.20	28.90	0.00	28.90	52.50	168.20	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 3:30 AM	341.00	0.60	15.90	56.70	40.80	33.20	56.70	158.20	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 3:45 AM	28.00	0.30	34.80	154.10	119.30	34.80	51.30	154.10	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 4:00 AM	336.00	0.40	16.30	47.30	31.00	33.10	47.30	152.60	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 4:15 AM	337.00	1.20	16.20	46.60	30.40	31.50	46.60	156.60	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 4:30 AM	288.00	0.80	15.90	47.40	31.50	31.80	47.40	159.10	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 4:45 AM	347.00	0.80	16.70	50.10	33.40	32.80	50.10	149.50	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 5:00 AM	327.00	0.80	16.70	56.30	39.60	0.00	56.30	154.90	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 5:15 AM	230.00	0.40	171.70	40.80	0.00	40.80	56.50	171.70	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 5:30 AM	138.00	1.20	90.70	21.00	0.00	42.60	90.70	243.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 5:45 AM	126.00	1.70	67.40	20.80	0.00	41.10	67.40	218.20	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 6:00 AM	132.00	1.20	89.30	22.90	0.00	45.10	89.30	222.90	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 6:15 AM	185.00	1.30	323.30	48.50	0.00	48.50	123.20	323.30	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 6:30 AM	170.00	1.00	64.50	21.50	0.00	47.10	64.50	321.80	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 6:45 AM	183.00	1.10	239.00	38.60	0.00	38.60	56.40	239.00	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 7:00 AM	175.00	2.10	57.20	20.20	0.00	38.70	57.20	250.30	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 7:15 AM	135.00	1.30	63.10	19.20	0.00	41.90	63.10	341.50	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 7:30 AM	84.00	2.00	37.30	291.50	254.20	37.30	60.30	291.50	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 7:45 AM	54.00	1.90	44.20	249.20	205.00	44.20	58.20	249.20	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 8:00 AM	79.00	3.40	65.60	232.50	166.90	65.60	59.40	232.50	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 8:15 AM	65.00	3.80	70.30	232.20	161.90	70.30	59.30	232.20	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 8:30 AM	58.00	4.00	63.40	212.60	149.20	63.40	48.60	212.60	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 8:45 AM	56.00	3.80	42.80	119.10	76.30	42.80	34.30	119.10	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 9:00 AM	51.00	4.20	23.40	36.80	13.40	23.40	22.90	36.80	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 9:15 AM	67.00	4.40	30.50	19.10	0.00	30.50	23.60	19.10	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 9:30 AM	65.00	4.90	29.10	9.80	0.00	29.10	17.80	9.80	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 9:45 AM	114.00	3.70	18.50	13.70	0.00	21.30	18.50	6.10	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 10:00 AM	108.00	4.20	14.70	10.90	0.00	17.30	14.70	2.70	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 10:15 AM	106.00	3.20	9.50	10.50	1.00	17.50	9.50	2.50	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 10:30 AM	89.00	3.60	20.00	3.10	0.00	20.00	10.30	3.10	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 10:45 AM	75.00	4.70	15.10	3.40	0.00	15.10	18.00	3.40	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 11:00 AM	106.00	3.70	20.60	11.50	0.00	21.00	20.60	2.80	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 11:15 AM	109.00	3.80	12.70	12.70	0.00	24.10	12.70	3.10	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 11:30 AM	95.00	3.90	27.50	14.50	0.00	19.70	27.50	3.30	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/27/15 11:45 AM	118.00	5.10	15.50	11.70	0.00	19.90	15.50	2.80	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 12:00 PM	81.00	4.30	0.00	5.00	0.00	0.00	13.20	5.00	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 12:15 PM	117.00	4.00	17.70	11.90	0.00	25.50	17.70	3.70	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 12:30 PM	84.00	4.80	23.90	3.20	0.00	23.90	13.50	3.20	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 12:45 PM	64.00	6.10	15.60	3.40	0.00	15.60	13.00	3.40	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 1:00 PM	66.00	3.30	20.20	4.20	0.00	20.20	12.60	4.20	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 1:15 PM	78.00	5.00	20.20	22.60	2.40	20.20	15.80	22.60	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 1:30 PM	71.00	4.70	16.10	5.00	0.00	16.10	14.10	5.00	29.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 1:45 PM	89.00	4.90	17.00	5.40	0.00	17.00	11.60	5.40	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 2:00 PM	84.00	3.20	17.60	5.90	0.00	17.60	20.80	5.90	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 2:15 PM	63.00	6.40	0.00	6.10	0.00	0.00	12.90	6.10	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 2:30 PM	77.00	5.40	24.30	5.20	0.00	24.30	9.00	5.20	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 2:45 PM	62.00	4.50	28.80	5.20	0.00	28.80	9.90	5.20	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 3:00 PM	70.00	5.00	23.40	6.00	0.00	23.40	13.00	6.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 3:15 PM	81.00	3.30	54.90	6.80	0.00	54.90	13.60	6.80	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 3:30 PM	72.00	6.20	42.20	6.60	0.00	42.20	13.20	6.60	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 3:45 PM	60.00	4.60	39.00	6.00	0.00	39.00	12.60	6.00	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 4:00 PM	22.00	7.60	39.10	6.30	0.00	39.10	9.70	6.30	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 4:15 PM	19.00	7.00	38.30	7.40	0.00	38.30	9.60	7.40	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 4:30 PM	29.00	7.00	49.80	8.20	0.00	49.80	12.30	8.20	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 4:45 PM	23.00	5.80	48.10	14.20	0.00	48.10	26.80	14.20	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 5:00 PM	46.00	6.80	42.80	21.90	0.00	42.80	30.10	21.90	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 5:15 PM	44.00	6.70	37.40	21.70	0.00	37.40	22.70	21.70	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 5:30 PM	27.00	7.10	31.10	25.70	0.00	31.10	28.70	25.70	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 5:45 PM	38.00	5.30	31.10	25.60	0.00	31.10	22.40	25.60	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 6:00 PM	32.00	5.50	35.90	32.40	0.00	35.90	21.60	32.40	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 6:15 PM	30.00	4.80	27.00	29.60	2.60	27.00	25.20	29.60	24.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 6:30 PM	38.00	4.30	45.20	29.20	0.00	45.20	34.00	29.20	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 6:45 PM	34.00	4.30	21.70	30.30	8.60	21.70	28.00	30.30	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 7:00 PM	42.00	5.70	29.50	37.70	8.20	29.50	57.40	37.70	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 7:15 PM	43.00	4.70	21.50	31.00	9.50	21.50	25.20	31.00	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 7:30 PM	47.00	4.30	21.80	30.20	8.40	21.80	25.00	30.20	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 7:45 PM	49.00	3.80	22.40	32.90	10.50	22.40	29.20	32.90	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 8:00 PM	44.00	4.10	20.50	34.20	13.70	20.50	26.00	34.20	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 8:15 PM	46.00	3.40	21.40	37.60	16.20	21.40	27.40	37.60	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 8:30 PM	56.00	4.80	25.10	38.60	13.50	25.10	44.50	38.60	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 8:45 PM	65.00	4.50	27.60	40.20	12.60	27.60	34.30	40.20	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 9:00 PM	72.00	4.10	23.90	40.40	16.50	23.90	46.50	40.40	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 9:15 PM	82.00	2.90	30.20	47.80	17.60	30.20	51.40	47.80	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 9:30 PM	82.00	3.30	41.60	47.80	6.20	41.60	57.90	47.80	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 9:45 PM	75.00	2.80	62.10	54.00	0.00	62.10	52.10	54.00	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 10:00 PM	68.00	3.30	47.00	62.80	15.80	47.00	44.40	62.80	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 10:15 PM	79.00	4.00	36.60	59.10	22.50	36.60	43.20	59.10	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 10:30 PM	79.00	4.40	41.50	63.60	22.10	41.50	42.60	63.60	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 10:45 PM	69.00	4.40	35.10	62.60	27.50	35.10	41.30	62.60	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 11:00 PM	78.00	5.00	31.50	62.70	31.20	31.50	41.40	62.70	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 11:15 PM	75.00	4.80	31.80	62.70	30.90	31.80	41.40	62.70	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 11:30 PM	72.00	4.80	27.90	62.90	35.00	27.90	40.30	62.90	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/15 11:45 PM	84.00	4.60	24.60	65.00	40.40	24.60	40.20	65.00	27.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 12:00 AM	77.00	4.30	35.20	73.60	38.40	35.20	39.70	73.60	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 12:15 AM	75.00	4.80	41.40	73.80	32.40	41.40	41.30	73.80	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 12:30 AM	72.00	4.50	40.10	70.70	30.60	40.10	41.30	70.70	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 12:45 AM	87.00	3.10	52.60	76.20	23.60	52.60	40.90	76.20	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 1:00 AM	79.00	2.60	31.60	71.60	40.00	31.60	40.90	71.60	35.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 1:15 AM	83.00	2.60	21.30	83.90	62.60	21.30	43.30	83.90	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 1:30 AM	75.00	2.60	23.40	97.30	73.90	23.40	46.50	97.30	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 1:45 AM	120.00	2.80	46.50	22.50	0.00	23.40	46.50	107.10	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 2:00 AM	112.00	3.20	54.10	14.60	0.00	23.50	54.10	144.20	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 2:15 AM	114.00	2.50	53.30	14.50	0.00	22.40	53.30	164.30	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 2:30 AM	118.00	2.50	52.10	15.10	0.00	24.00	52.10	172.40	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 2:45 AM	127.00	2.40	52.10	15.70	0.00	23.70	52.10	171.90	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 3:00 AM	115.00	2.20	46.60	16.30	0.00	28.30	46.60	92.10	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 3:15 AM	120.00	2.60	46.60	16.20	0.00	30.40	46.60	52.80	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 3:30 AM	111.00	2.60	23.00	13.70	0.00	21.50	23.00	28.70	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 3:45 AM	112.00	2.20	19.50	14.20	0.00	22.70	19.50	19.00	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 4:00 AM	118.00	3.00	19.40	15.00	0.00	23.20	19.40	15.20	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 4:15 AM	113.00	2.80	20.00	14.90	0.00	28.30	20.00	15.00	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 4:30 AM	122.00	2.70	19.10	15.30	0.00	23.40	19.10	15.70	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 4:45 AM	113.00	3.10	19.30	16.20	0.00	34.50	19.30	14.70	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 5:00 AM	112.00	2.50	20.80	19.80	0.00	33.80	20.80	15.70	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 5:15 AM	111.00	2.30	19.60	16.90	0.00	34.00	19.60	14.70	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 5:30 AM	118.00	2.20	22.40	20.10	0.00	35.80	22.40	15.40	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 5:45 AM	126.00	2.30	21.00	17.70	0.00	27.80	21.00	16.60	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 6:00 AM	122.00	2.20	29.50	34.00	4.50	55.00	29.50	20.30	34.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 6:15 AM	137.00	2.10	26.10	40.80	14.70	77.50	26.10	19.80	40.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 6:30 AM	158.00	2.20	23.20	30.60	7.40	62.60	23.20	20.00	30.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 6:45 AM	147.00	3.40	22.40	23.10	0.70	39.90	22.40	21.10	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 7:00 AM	156.00	3.80	21.80	20.70	0.00	36.10	21.80	25.80	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 7:15 AM	151.00	2.50	23.50	20.10	0.00	35.60	23.50	22.80	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 7:30 AM	146.00	4.20	23.30	16.30	0.00	34.90	23.30	21.10	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 7:45 AM	152.00	3.90	28.20	17.20	0.00	31.80	28.20	19.20	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 8:00 AM	155.00	3.40	31.80	21.00	0.00	27.40	31.80	17.60	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 8:15 AM	142.00	3.30	23.80	15.20	0.00	39.30	23.80	16.90	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 8:30 AM	156.00	3.10	50.00	16.70	0.00	28.90	50.00	16.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 8:45 AM	132.00	4.10	18.80	15.70	0.00	35.70	18.80	19.50	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 9:00 AM	150.00	4.70	18.40	14.30	0.00	35.50	18.40	13.90	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 9:15 AM	141.00	3.30	18.50	14.40	0.00	43.00	18.50	13.80	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 9:30 AM	183.00	3.90	15.20	35.10	19.90	35.10	24.80	15.20	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 9:45 AM	142.00	4.10	25.00	16.50	0.00	36.00	25.00	17.50	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 10:00 AM	195.00	3.30	14.00	33.90	19.90	33.90	26.70	14.00	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 10:15 AM	177.00	3.70	22.10	13.60	0.00	31.20	22.10	14.70	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 10:30 AM	144.00	4.40	21.80	14.60	0.00	29.10	21.80	14.40	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 10:45 AM	185.00	3.80	17.30	32.50	15.20	32.50	28.10	17.30	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 11:00 AM	143.00	3.10	28.80	19.20	0.00	38.90	28.80	17.30	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 11:15 AM	150.00	3.80	66.10	21.30	0.00	38.00	66.10	100.50	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 11:30 AM	144.00	2.90	37.70	18.80	0.00	34.80	37.70	53.70	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 11:45 AM	167.00	3.30	36.20	19.30	0.00	34.80	36.20	55.20	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 12:00 PM	175.00	4.10	170.90	22.70	0.00	58.10	170.90	55.70	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 12:15 PM	114.00	4.00	41.80	18.50	0.00	36.40	41.80	54.70	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 12:30 PM	137.00	1.70	55.10	18.30	0.00	33.60	55.10	55.00	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 12:45 PM	121.00	3.20	42.20	18.20	0.00	122.70	42.20	83.80	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/28/15 1:00 PM	129.00	2.80	46.40	17.60	0.00	29.10	46.40	56.80	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 1:15 PM	162.00	3.30	35.30	16.70	0.00	28.00	35.30	51.00	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 1:30 PM	169.00	3.30	93.40	17.50	0.00	70.40	93.40	2766.30	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 1:45 PM	234.00	2.20	78.20	30.60	0.00	30.60	42.40	78.20	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 2:00 PM	181.00	3.50	66.60	35.30	0.00	35.30	46.00	66.60	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 2:15 PM	193.00	4.20	71.00	42.10	0.00	42.10	42.20	71.00	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 2:30 PM	157.00	4.40	109.20	18.60	0.00	34.90	109.20	71.30	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 2:45 PM	196.00	4.00	77.00	40.00	0.00	40.00	43.60	77.00	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 3:00 PM	185.00	4.20	57.80	32.80	0.00	32.80	40.90	57.80	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 3:15 PM	189.00	1.90	49.90	30.60	0.00	30.60	41.90	49.90	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 3:30 PM	123.00	3.20	31.90	13.30	0.00	25.30	31.90	47.30	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 3:45 PM	96.00	2.70	28.00	15.80	0.00	25.20	28.00	45.60	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 4:00 PM	121.00	2.90	241.40	14.10	0.00	25.00	241.40	80.50	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 4:15 PM	77.00	6.20	22.90	40.00	17.10	22.90	26.80	40.00	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 4:30 PM	144.00	4.20	42.50	13.50	0.00	33.20	42.50	41.40	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 4:45 PM	130.00	5.70	41.60	16.90	0.00	38.10	41.60	51.80	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 5:00 PM	169.00	4.60	43.80	17.10	0.00	31.50	43.80	59.60	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 5:15 PM	165.00	5.40	39.90	17.30	0.00	28.00	39.90	57.70	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 5:30 PM	166.00	5.40	50.40	19.60	0.00	29.80	50.40	70.60	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 5:45 PM	157.00	4.60	33.20	19.90	0.00	35.20	33.20	46.00	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 6:00 PM	206.00	4.40	51.60	25.10	0.00	25.10	31.90	51.60	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 6:15 PM	203.00	4.70	48.70	27.50	0.00	27.50	33.20	48.70	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 6:30 PM	204.00	4.00	53.00	26.60	0.00	26.60	35.80	53.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 6:45 PM	196.00	3.10	54.90	29.80	0.00	29.80	37.90	54.90	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 7:00 PM	210.00	2.80	57.10	30.50	0.00	30.50	40.20	57.10	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 7:15 PM	219.00	3.30	53.40	31.50	0.00	31.50	39.00	53.40	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 7:30 PM	210.00	3.30	63.40	37.10	0.00	37.10	44.40	63.40	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 7:45 PM	212.00	2.60	62.30	37.00	0.00	37.00	43.70	62.30	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 8:00 PM	210.00	2.00	65.00	34.60	0.00	34.60	43.60	65.00	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 8:15 PM	205.00	1.60	65.60	0.00	0.00	0.00	45.30	65.60	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 8:30 PM	219.00	1.10	63.40	33.70	0.00	33.70	45.20	63.40	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 8:45 PM	213.00	0.90	64.50	38.40	0.00	38.40	67.10	64.50	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 9:00 PM	237.00	1.40	68.10	37.30	0.00	37.30	45.90	68.10	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 9:15 PM	209.00	1.60	73.40	38.70	0.00	38.70	49.90	73.40	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 9:30 PM	215.00	0.80	74.20	38.80	0.00	38.80	51.80	74.20	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 9:45 PM	223.00	1.30	85.10	39.30	0.00	39.30	54.90	85.10	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 10:00 PM	230.00	1.40	87.80	39.50	0.00	39.50	58.50	87.80	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 10:15 PM	239.00	3.60	94.00	37.60	0.00	37.60	60.10	94.00	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 10:30 PM	0.00	0.00	0.00	0.00	0.00	37.60	60.10	94.00	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 10:45 PM	0.00	0.00	0.00	0.00	0.00	37.90	59.00	91.20	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 11:00 PM	0.00	0.00	0.00	0.00	0.00	37.50	61.10	94.10	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 11:15 PM	190.00	0.90	101.70	38.10	0.00	38.10	59.50	101.70	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 11:30 PM	152.00	1.20	60.20	20.70	0.00	34.80	60.20	107.30	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/15 11:45 PM	192.00	0.70	115.00	36.60	0.00	36.60	62.20	115.00	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 12:00 AM	219.00	1.10	119.50	33.60	0.00	33.60	62.70	119.50	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 12:15 AM	159.00	1.50	63.00	21.50	0.00	34.40	63.00	133.90	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 12:30 AM	156.00	1.30	67.60	21.50	0.00	37.50	67.60	144.50	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 12:45 AM	145.00	2.40	69.30	23.20	0.00	37.30	69.30	168.60	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 1:00 AM	147.00	2.50	72.40	22.30	0.00	38.90	72.40	187.10	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 1:15 AM	139.00	2.30	74.00	21.70	0.00	38.30	74.00	231.00	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 1:30 AM	169.00	2.50	76.10	23.40	0.00	37.10	76.10	273.10	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 1:45 AM	166.00	3.00	76.60	23.80	0.00	39.80	76.60	279.30	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 2:00 AM	167.00	2.80	80.60	25.70	0.00	42.40	80.60	300.70	25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 2:15 AM	169.00	2.50	79.20	25.20	0.00	40.10	79.20	322.20	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 2:30 AM	219.00	3.30	329.00	38.80	0.00	38.80	76.10	329.00	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 2:45 AM	254.00	5.80	326.70	36.90	0.00	36.90	72.10	326.70	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 3:00 AM	228.00	2.70	304.00	33.50	0.00	33.50	67.60	304.00	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 3:15 AM	271.00	2.30	19.60	63.30	43.70	31.00	63.30	301.90	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 3:30 AM	226.00	1.10	272.50	28.80	0.00	28.80	58.90	272.50	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 3:45 AM	203.00	1.70	309.10	27.80	0.00	27.80	54.50	309.10	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 4:00 AM	205.00	2.20	253.00	21.70	0.00	21.70	47.30	253.00	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 4:15 AM	201.00	3.50	220.90	17.50	0.00	17.50	32.60	220.90	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 4:30 AM	254.00	3.10	253.60	17.20	0.00	17.20	44.50	253.60	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 4:45 AM	255.00	3.80	307.90	17.30	0.00	17.30	52.00	307.90	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 5:00 AM	232.00	3.30	413.00	20.10	0.00	20.10	63.60	413.00	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 5:15 AM	232.00	3.10	508.20	21.10	0.00	21.10	65.60	508.20	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 5:30 AM	233.00	3.10	530.20	21.10	0.00	21.10	65.50	530.20	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 5:45 AM	254.00	2.20	561.80	19.50	0.00	19.50	60.20	561.80	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 6:00 AM	264.00	1.60	549.00	15.50	0.00	15.50	48.30	549.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 6:15 AM	234.00	1.60	538.80	15.10	0.00	15.10	39.70	538.80	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 6:30 AM	217.00	1.40	528.70	0.00	0.00	0.00	34.60	528.70	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 6:45 AM	240.00	2.20	529.00	14.70	0.00	14.70	32.50	529.00	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 7:00 AM	228.00	1.60	519.40	15.10	0.00	15.10	33.90	519.40	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 7:15 AM	230.00	2.10	529.00	15.70	0.00	15.70	35.90	529.00	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 7:30 AM	221.00	1.90	557.10	15.50	0.00	15.50	38.50	557.10	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 7:45 AM	243.00	2.70	531.10	15.10	0.00	15.10	41.00	531.10	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 8:00 AM	239.00	3.70	514.60	15.50	0.00	15.50	37.90	514.60	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 8:15 AM	265.00	2.80	498.50	14.80	0.00	14.80	35.50	498.50	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 8:30 AM	282.00	2.30	9.40	30.40	21.00	13.90	30.40	488.30	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 8:45 AM	265.00	1.30	448.00	14.00	0.00	14.00	27.50	448.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 9:00 AM	262.00	2.20	401.90	14.30	0.00	14.30	23.70	401.90	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 9:15 AM	257.00	2.30	381.90	12.50	0.00	12.50	20.60	381.90	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 9:30 AM	292.00	2.00	8.70	21.90	13.20	16.30	21.90	381.90	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 9:45 AM	255.00	1.40	317.50	14.50	0.00	14.50	22.70	317.50	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 10:00 AM	278.00	3.30	9.30	23.10	13.80	16.00	23.10	278.40	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 10:15 AM	290.00	2.70	9.20	22.30	13.10	15.00	22.30	239.90	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 10:30 AM	280.00	3.90	10.10	20.30	10.20	15.30	20.30	196.30	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 10:45 AM	292.00	3.70	10.40	17.40	7.00	16.90	17.40	163.90	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 11:00 AM	337.00	1.30	10.80	16.70	5.90	17.80	16.70	115.50	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 11:15 AM	340.00	2.80	11.00	16.60	5.60	19.80	16.60	53.60	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 11:30 AM	23.00	4.80	17.40	32.00	14.60	17.40	14.10	32.00	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 11:45 AM	16.00	5.50	18.40	0.00	0.00	18.40	12.10	0.00	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 12:00 PM	9.00	8.20	18.10	0.00	0.00	18.10	11.00	0.00	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 12:15 PM	13.00	3.70	18.90	0.00	0.00	18.90	10.40	0.00	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 12:30 PM	8.00	4.40	18.10	0.00	0.00	18.10	9.60	0.00	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 12:45 PM	348.00	3.90	10.40	9.00	0.00	17.50	9.00	0.00	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 1:00 PM	349.00	4.00	9.30	9.50	0.20	16.20	9.50	0.00	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 1:15 PM	270.00	0.50	8.70	10.50	1.80	13.60	10.50	0.00	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 1:30 PM	32.00	0.80	15.00	0.00	0.00	15.00	10.90	0.00	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 1:45 PM	6.00	1.50	11.50	0.00	0.00	11.50	13.90	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 2:00 PM	2.00	2.40	10.10	0.00	0.00	10.10	5.90	0.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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July 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
7/29/15 2:15 PM	8.00	3.70	10.10	0.00	0.00	10.10	2.80	0.00	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 2:30 PM	15.00	6.50	9.90	0.00	0.00	9.90	2.30	0.00	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 2:45 PM	23.00	4.70	11.10	0.00	0.00	11.10	0.30	0.00	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 3:15 PM	292.00	0.50	6.20	0.80	0.00	8.60	0.80	0.00	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 3:30 PM	52.00	0.50	9.10	0.00	0.00	9.10	1.00	0.00	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 3:45 PM	265.00	2.40	0.00	9.30	9.30	9.30	1.00	0.00	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 4:00 PM	293.00	4.20	10.40	1.10	0.00	9.10	1.10	0.00	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 4:15 PM	302.00	6.10	8.20	1.30	0.00	76.40	1.30	0.00	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 4:30 PM	292.00	5.70	7.30	1.00	0.00	12.10	1.00	0.00	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 4:45 PM	299.00	4.30	6.80	1.30	0.00	9.80	1.30	0.00	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 5:00 PM	269.00	4.20	0.00	8.20	8.20	8.20	1.50	0.00	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 5:15 PM	285.00	4.30	7.40	1.70	0.00	10.10	1.70	0.00	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 5:30 PM	265.00	6.80	0.00	8.40	8.40	8.40	1.70	0.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 5:45 PM	306.00	6.20	7.90	0.00	0.00	11.10	0.00	0.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 6:00 PM	284.00	5.30	7.90	1.70	0.00	8.30	1.70	0.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 6:15 PM	294.00	5.90	7.90	1.90	0.00	10.20	1.90	0.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 6:30 PM	263.00	4.00	0.00	10.20	10.20	10.20	1.80	0.00	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 6:45 PM	257.00	4.50	0.00	9.40	9.40	9.40	1.70	0.00	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 7:00 PM	279.00	6.00	8.30	1.70	0.00	9.20	1.70	0.00	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 7:15 PM	294.00	3.80	7.60	1.70	0.00	11.00	1.70	0.60	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 7:30 PM	312.00	4.00	7.70	1.80	0.00	0.00	1.80	0.70	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 7:45 PM	278.00	3.80	7.10	1.70	0.00	12.20	1.70	0.70	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 8:00 PM	277.00	4.70	6.80	1.70	0.00	13.60	1.70	0.70	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 8:15 PM	272.00	3.60	5.40	1.60	0.00	11.60	1.60	0.70	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 8:30 PM	277.00	4.20	6.00	1.60	0.00	11.50	1.60	0.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 8:45 PM	268.00	3.10	0.70	13.00	12.30	13.00	1.60	0.70	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 9:00 PM	254.00	2.60	0.70	12.20	11.50	12.20	1.60	0.70	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 9:15 PM	255.00	2.20	0.90	13.00	12.10	13.00	1.70	0.90	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 9:30 PM	259.00	2.30	0.90	13.00	12.10	13.00	1.70	0.90	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 9:45 PM	257.00	3.10	1.00	12.80	11.80	12.80	2.00	1.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 10:00 PM	257.00	2.60	1.10	13.70	12.60	13.70	2.70	1.10	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 10:15 PM	253.00	2.30	1.30	13.30	12.00	13.30	4.10	1.30	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 10:30 PM	255.00	2.60	1.70	12.30	10.60	12.30	4.70	1.70	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 10:45 PM	257.00	2.70	1.30	10.70	9.40	10.70	4.70	1.30	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 11:00 PM	251.00	2.30	1.30	11.40	10.10	11.40	5.10	1.30	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 11:15 PM	254.00	2.50	1.40	10.70	9.30	10.70	5.90	1.40	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 11:30 PM	257.00	2.20	1.50	9.50	8.00	9.50	6.10	1.50	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/15 11:45 PM	264.00	2.90	1.50	10.70	9.20	10.70	6.90	1.50	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 12:00 AM	265.00	2.70	1.50	11.60	10.10	11.60	7.00	1.50	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 12:15 AM	254.00	2.20	1.60	10.60	9.00	10.60	7.30	1.60	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 12:30 AM	245.00	2.10	1.70	10.50	8.80	10.50	8.20	1.70	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 12:45 AM	258.00	2.50	2.00	11.10	9.10	11.10	9.00	2.00	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 1:00 AM	264.00	2.70	2.00	15.20	13.20	15.20	9.10	2.00	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 1:15 AM	259.00	2.30	2.00	14.40	12.40	14.40	8.60	2.00	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 1:30 AM	256.00	2.30	1.80	11.80	10.00	11.80	8.80	1.80	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 1:45 AM	261.00	2.50	1.90	11.70	9.80	11.70	8.90	1.90	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 2:00 AM	270.00	2.40	4.70	9.10	4.40	13.00	9.10	1.90	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 2:15 AM	262.00	3.60	1.90	11.60	9.70	11.60	8.50	1.90	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 2:30 AM	270.00	3.00	5.30	8.90	3.60	12.50	8.90	1.90	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 2:45 AM	267.00	2.60	1.90	13.10	11.20	13.10	9.00	1.90	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 3:00 AM	268.00	2.90	1.90	12.40	10.50	12.40	8.80	1.90	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 3:15 AM	267.00	3.00	1.90	11.10	9.20	11.10	8.50	1.90	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 3:30 AM	267.00	3.40	2.10	13.20	11.10	13.20	9.30	2.10	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 3:45 AM	273.00	3.00	6.00	9.00	3.00	12.90	9.00	2.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 4:00 AM	269.00	3.00	2.20	12.70	10.50	12.70	8.60	2.20	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 4:15 AM	272.00	3.30	5.40	8.50	3.10	12.30	8.50	2.50	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 4:30 AM	275.00	3.40	5.90	8.60	2.70	13.40	8.60	2.90	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 4:45 AM	277.00	3.10	6.50	8.70	2.20	14.80	8.70	3.10	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 5:00 AM	268.00	3.20	3.70	0.00	0.00	0.00	8.70	3.70	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 5:15 AM	266.00	3.30	3.90	16.00	12.10	16.00	9.60	3.90	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 5:30 AM	265.00	2.90	4.20	12.80	8.60	12.80	9.90	4.20	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 5:45 AM	263.00	3.60	4.30	0.00	0.00	0.00	10.00	4.30	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 6:00 AM	266.00	3.10	5.30	12.00	6.70	12.00	10.20	5.30	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 6:15 AM	265.00	3.50	5.90	12.30	6.40	12.30	11.50	5.90	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 6:30 AM	267.00	3.40	6.40	12.80	6.40	12.80	12.30	6.40	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 6:45 AM	273.00	2.80	6.00	12.30	6.30	13.20	12.30	6.80	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 7:00 AM	271.00	4.20	6.10	13.30	7.20	14.60	13.30	7.90	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 7:15 AM	280.00	2.90	6.50	13.90	7.40	14.20	13.90	8.20	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 7:30 AM	273.00	3.40	6.20	14.50	8.30	14.40	14.50	8.00	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 7:45 AM	259.00	2.90	8.10	0.00	0.00	0.00	14.90	8.10	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 8:00 AM	257.00	2.80	7.60	13.90	6.30	13.90	15.20	7.60	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 8:15 AM	283.00	3.40	6.30	15.40	9.10	12.90	15.40	7.40	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 8:30 AM	295.00	3.70	6.00	17.10	11.10	13.60	17.10	7.20	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 8:45 AM	289.00	4.40	6.40	16.40	10.00	14.80	16.40	7.10	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 9:00 AM	293.00	3.80	7.00	18.40	11.40	16.20	18.40	7.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 9:15 AM	277.00	4.20	6.60	16.60	10.00	15.00	16.60	6.10	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 9:30 AM	295.00	4.50	6.70	16.60	9.90	17.20	16.60	6.10	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 9:45 AM	268.00	4.00	6.10	18.10	12.00	18.10	18.20	6.10	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 10:00 AM	278.00	3.70	8.10	16.20	8.10	19.40	16.20	5.80	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 10:15 AM	326.00	3.60	8.80	0.00	0.00	19.30	0.00	6.10	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 10:30 AM	251.00	3.10	5.50	21.40	15.90	21.40	-0.60	5.50	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 10:45 AM	320.00	5.70	9.10	8.50	0.00	20.90	8.50	5.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 11:00 AM	300.00	7.00	11.30	6.90	0.00	20.30	6.90	4.60	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 11:15 AM	297.00	5.40	10.30	10.30	0.00	19.90	10.30	4.90	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 11:30 AM	292.00	5.40	12.50	7.10	0.00	24.60	7.10	5.10	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 11:45 AM	291.00	6.50	13.80	7.70	0.00	21.60	7.70	5.70	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 12:00 PM	293.00	4.80	14.10	32.50	18.40	0.00	32.50	5.20	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 12:15 PM	324.00	4.00	13.20	10.40	0.00	21.20	10.40	5.50	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 12:30 PM	314.00	6.70	12.60	7.30	0.00	32.00	7.30	5.70	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 12:45 PM	280.00	8.10	13.80	6.30	0.00	26.30	6.30	5.70	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 1:00 PM	309.00	4.60	20.20	6.30	0.00	33.00	6.30	5.80	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 1:15 PM	301.00	7.60	15.30	5.00	0.00	28.30	5.00	6.00	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 1:30 PM	313.00	6.90	21.70	5.40	0.00	21.50	5.40	6.80	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 1:45 PM	280.00	3.80	3.80	5.00	1.20	36.20	5.00	6.80	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 2:00 PM	326.00	4.50	16.30	4.50	0.00	23.60	4.50	7.10	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 2:15 PM	298.00	5.20	14.70	12.30	0.00	25.60	12.30	7.10	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 2:30 PM	284.00	4.70	17.00	6.10	0.00	23.70	6.10	4.60	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 2:45 PM	331.00	3.00	17.30	5.50	0.00	23.70	5.50	2.90	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 3:00 PM	325.00	5.50	16.60	6.50	0.00	22.50	6.50	3.80	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 3:15 PM	281.00	4.70	17.90	0.00	0.00	0.00	0.00	3.70	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 3:30 PM	295.00	5.40	16.10	4.80	0.00	21.60	4.80	4.00	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/30/15 3:45 PM	294.00	5.20	17.10	4.60	0.00	20.40	4.60	4.30	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 4:00 PM	277.00	4.40	17.10	3.00	0.00	19.70	3.00	4.50	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 4:15 PM	281.00	4.40	19.90	2.50	0.00	19.80	2.50	4.40	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 4:30 PM	262.00	5.40	4.40	20.10	15.70	20.10	2.80	4.40	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 4:45 PM	263.00	5.00	4.00	19.30	15.30	19.30	3.10	4.00	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 5:00 PM	267.00	4.50	4.40	16.70	12.30	16.70	1.80	4.40	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 5:15 PM	293.00	4.20	15.60	1.30	0.00	23.50	1.30	4.20	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 5:30 PM	258.00	5.00	5.00	19.20	14.20	19.20	11.40	5.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 5:45 PM	277.00	4.00	15.70	1.30	0.00	18.30	1.30	5.00	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 6:00 PM	265.00	4.40	5.60	16.60	11.00	16.60	2.10	5.60	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 6:15 PM	285.00	4.30	20.50	0.90	0.00	19.80	0.90	4.60	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 6:30 PM	283.00	5.00	12.60	1.10	0.00	0.00	1.10	5.00	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 6:45 PM	276.00	4.30	13.00	1.10	0.00	0.00	1.10	5.10	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 7:00 PM	280.00	3.30	12.70	0.80	0.00	14.00	0.80	6.50	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 7:15 PM	285.00	4.10	13.00	0.40	0.00	11.40	0.40	5.40	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 7:30 PM	307.00	5.20	12.10	0.60	0.00	10.70	0.60	5.80	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 7:45 PM	283.00	3.10	12.00	1.00	0.00	10.60	1.00	5.20	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 8:00 PM	268.00	3.40	5.80	9.80	4.00	9.80	0.00	5.80	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 8:15 PM	260.00	3.30	6.70	15.20	8.50	15.20	2.60	6.70	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 8:30 PM	256.00	3.10	5.90	11.70	5.80	11.70	0.20	5.90	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 8:45 PM	256.00	2.90	5.90	13.70	7.80	13.70	0.10	5.90	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 9:00 PM	257.00	3.00	6.90	13.30	6.40	13.30	1.70	6.90	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 9:15 PM	257.00	2.50	9.10	14.60	5.50	14.60	2.20	9.10	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 9:30 PM	245.00	1.90	10.30	20.50	10.20	20.50	2.40	10.30	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 9:45 PM	250.00	2.40	12.30	15.90	3.60	15.90	3.00	12.30	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 10:00 PM	255.00	1.90	11.90	15.90	4.00	15.90	3.30	11.90	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 10:15 PM	256.00	2.70	13.50	14.20	0.70	14.20	3.30	13.50	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 10:30 PM	260.00	3.10	15.30	14.80	0.00	14.80	4.60	15.30	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 10:45 PM	248.00	2.20	17.00	13.70	0.00	13.70	5.10	17.00	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 11:00 PM	255.00	2.90	17.30	14.20	0.00	14.20	5.00	17.30	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 11:15 PM	264.00	3.00	18.00	14.40	0.00	14.40	5.10	18.00	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 11:30 PM	260.00	2.90	17.60	12.90	0.00	12.90	65.30	17.60	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/15 11:45 PM	272.00	2.90	6.00	54.90	48.90	13.20	54.90	17.90	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 12:00 AM	269.00	2.90	19.60	13.70	0.00	13.70	49.80	19.60	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 12:15 AM	260.00	2.40	19.70	14.30	0.00	14.30	53.80	19.70	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 12:30 AM	269.00	2.20	21.00	14.40	0.00	14.40	50.20	21.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 12:45 AM	275.00	1.80	10.80	47.10	36.30	15.60	47.10	20.20	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 1:00 AM	261.00	1.80	20.00	14.60	0.00	14.60	44.10	20.00	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 1:15 AM	263.00	1.70	20.60	14.70	0.00	14.70	39.70	20.60	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 1:30 AM	248.00	1.70	21.20	14.20	0.00	14.20	38.40	21.20	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 1:45 AM	259.00	2.10	21.70	13.70	0.00	13.70	39.00	21.70	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 2:00 AM	261.00	2.20	19.90	13.30	0.00	13.30	38.40	19.90	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 2:15 AM	256.00	2.20	19.40	13.80	0.00	13.80	34.10	19.40	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 2:30 AM	230.00	1.70	21.80	0.00	0.00	0.00	30.50	21.80	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 2:45 AM	228.00	1.70	21.10	14.80	0.00	14.80	35.70	21.10	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 3:00 AM	234.00	2.20	19.70	15.30	0.00	15.30	33.90	19.70	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 3:15 AM	243.00	2.20	19.50	14.00	0.00	14.00	31.60	19.50	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 3:30 AM	250.00	2.00	20.70	14.90	0.00	14.90	33.30	20.70	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 3:45 AM	252.00	2.20	30.90	15.80	0.00	15.80	37.50	30.90	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 4:00 AM	258.00	2.00	30.80	0.00	0.00	0.00	40.90	30.80	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 4:15 AM	257.00	2.40	25.80	15.20	0.00	15.20	32.90	25.80	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 4:30 AM	264.00	1.80	19.90	14.80	0.00	14.80	32.20	19.90	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 4:45 AM	244.00	1.70	19.00	14.90	0.00	14.90	33.50	19.00	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 5:00 AM	234.00	1.80	21.20	15.60	0.00	15.60	36.40	21.20	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 5:15 AM	230.00	1.30	16.80	14.70	0.00	14.70	29.30	16.80	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 5:30 AM	225.00	2.20	12.40	13.40	1.00	13.40	25.50	12.40	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 5:45 AM	221.00	1.90	13.50	16.80	3.30	16.80	27.00	13.50	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 6:00 AM	237.00	2.70	22.70	14.20	0.00	14.20	27.10	22.70	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 6:15 AM	244.00	2.40	23.70	20.50	0.00	20.50	29.60	23.70	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 6:30 AM	251.00	2.70	26.10	17.10	0.00	17.10	27.70	26.10	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 6:45 AM	251.00	2.60	25.10	0.00	0.00	0.00	27.70	25.10	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 7:00 AM	246.00	2.80	27.60	16.60	0.00	16.60	28.60	27.60	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 7:15 AM	239.00	2.40	26.60	16.10	0.00	16.10	27.50	26.60	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 7:30 AM	258.00	2.50	26.60	13.80	0.00	13.80	25.70	26.60	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 7:45 AM	250.00	2.80	26.20	15.40	0.00	15.40	25.20	26.20	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 8:00 AM	238.00	3.40	24.50	17.70	0.00	17.70	29.20	24.50	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 8:15 AM	250.00	3.70	22.30	17.30	0.00	17.30	26.80	22.30	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 8:30 AM	275.00	3.10	11.20	24.50	13.30	13.80	24.50	19.90	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 8:45 AM	286.00	3.70	9.90	25.70	15.80	15.10	25.70	18.80	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 9:00 AM	248.00	3.30	17.00	17.20	0.20	17.20	42.40	17.00	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 9:15 AM	245.00	4.20	16.50	17.50	1.00	17.50	23.20	16.50	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 9:30 AM	214.00	3.70	13.50	24.60	11.10	24.60	24.10	13.50	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 9:45 AM	240.00	3.90	15.30	24.50	9.20	24.50	25.00	15.30	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 10:00 AM	257.00	5.40	22.50	24.80	2.30	24.80	25.40	22.50	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 10:15 AM	273.00	4.00	11.30	31.10	19.80	26.10	31.10	24.00	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 10:30 AM	289.00	5.30	9.40	24.90	15.50	16.50	24.90	23.40	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 10:45 AM	279.00	6.60	8.80	25.10	16.30	16.50	25.10	26.10	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 11:00 AM	298.00	4.80	7.90	34.00	26.10	21.60	34.00	31.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 11:15 AM	268.00	4.90	23.10	20.50	0.00	20.50	38.30	23.10	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 11:30 AM	307.00	6.80	7.40	30.30	22.90	17.00	30.30	22.50	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 11:45 AM	285.00	7.00	7.50	23.80	16.30	24.40	23.80	13.80	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 12:00 PM	284.00	6.80	7.20	35.30	28.10	18.00	35.30	14.50	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 12:15 PM	295.00	4.60	8.20	23.30	15.10	18.60	23.30	14.50	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 12:30 PM	293.00	6.30	10.00	30.90	20.90	21.20	30.90	10.30	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 12:45 PM	318.00	8.50	9.40	59.40	50.00	20.00	59.40	10.00	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 1:00 PM	288.00	7.70	11.00	18.40	7.40	18.80	18.40	11.40	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 1:15 PM	311.00	8.40	31.20	16.40	0.00	19.80	16.40	8.00	31.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 1:30 PM	283.00	6.70	15.40	16.40	1.00	23.30	16.40	7.50	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 1:45 PM	301.00	7.10	12.80	1.30	0.00	23.30	1.30	5.40	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 2:00 PM	318.00	11.10	26.80	81.90	55.10	69.80	81.90	5.10	26.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 2:15 PM	313.00	9.10	22.40	28.40	6.00	28.00	28.40	5.90	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 2:30 PM	300.00	4.20	13.40	66.60	53.20	18.20	66.60	4.30	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 2:45 PM	316.00	8.30	27.90	22.20	0.00	38.00	22.20	6.60	27.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 3:00 PM	298.00	6.30	12.80	285.10	272.30	22.90	285.10	8.30	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 3:15 PM	266.00	5.30	9.40	22.50	13.10	22.50	7.50	9.40	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 3:30 PM	265.00	6.80	8.20	0.00	0.00	0.00	6.10	8.20	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 3:45 PM	302.00	7.60	16.60	1.40	0.00	31.20	1.40	8.70	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 4:00 PM	298.00	10.70	18.60	1.60	0.00	31.90	1.60	7.00	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 4:15 PM	307.00	9.30	13.80	59.00	45.20	43.00	59.00	13.60	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 4:30 PM	318.00	7.80	13.80	59.00	45.20	43.00	59.00	13.60	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 4:45 PM	311.00	5.80	14.70	7.00	0.00	48.90	7.00	13.70	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 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
7/31/15 5:00 PM	305.00	7.80	24.90	21.60	0.00	57.80	21.60	15.90	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 5:15 PM	280.00	6.60	19.20	12.00	0.00	28.20	12.00	16.50	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 5:30 PM	272.00	4.30	15.90	2.90	0.00	20.80	2.90	9.70	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 5:45 PM	314.00	4.80	13.70	2.30	0.00	23.00	2.30	10.50	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 6:00 PM	315.00	5.60	14.10	0.90	0.00	24.50	0.90	9.10	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 6:15 PM	306.00	7.00	13.00	2.10	0.00	18.90	2.10	11.60	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 6:30 PM	302.00	6.50	12.90	10.30	0.00	21.30	10.30	11.70	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 6:45 PM	302.00	6.70	12.00	-4.10	0.00	17.60	-4.10	11.10	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 7:00 PM	309.00	6.60	11.40	0.00	0.00	16.60	0.00	8.80	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 7:15 PM	309.00	4.40	11.20	-1.30	0.00	16.30	-1.30	8.90	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 7:30 PM	313.00	5.20	11.30	-2.40	0.00	15.40	-2.40	9.70	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 7:45 PM	315.00	5.80	11.10	5.10	0.00	14.20	5.10	11.30	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 8:00 PM	295.00	3.30	10.80	-1.20	0.00	14.60	-1.20	8.60	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 8:15 PM	321.00	4.70	10.20	-1.30	0.00	14.50	-1.30	9.60	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 8:30 PM	316.00	4.70	10.80	-1.10	0.00	15.50	-1.10	9.40	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 8:45 PM	322.00	3.00	10.60	0.80	0.00	16.80	0.80	10.00	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 9:00 PM	330.00	3.30	10.50	-0.70	0.00	14.80	-0.70	11.00	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 9:15 PM	327.00	3.70	10.90	13.30	2.40	16.50	13.30	12.70	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 9:30 PM	328.00	3.30	10.40	1.10	0.00	15.80	1.10	12.90	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 9:45 PM	316.00	2.80	10.40	2.90	0.00	15.50	2.90	10.70	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 10:00 PM	307.00	2.80	11.10	-0.60	0.00	15.10	-0.60	12.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 10:15 PM	299.00	1.70	10.40	0.70	0.00	12.60	0.70	13.00	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 10:30 PM	293.00	1.50	11.00	-0.70	0.00	15.00	-0.70	12.10	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 10:45 PM	295.00	1.90	11.30	-0.60	0.00	13.30	-0.60	12.90	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 11:00 PM	303.00	2.10	12.10	-0.20	0.00	13.60	-0.20	26.50	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 11:15 PM	300.00	1.50	12.40	-1.10	0.00	17.40	-1.10	15.00	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 11:30 PM	274.00	1.70	11.00	10.00	0.00	17.80	10.00	23.50	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/15 11:45 PM	279.00	1.70	10.60	6.30	0.00	24.30	6.30	20.00	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Retrieved from www.indianaharbordredge.com

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: 7/7/2015 5:30AM 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:

	Loss of Power
	Loss of Radio Communication
	Out of Calibration
	UV Alignment
	Blockage in Air Tube
	Air Quality
X	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 found wrong with the air unit. Video camera records were reviewed. Stroms just started when air unit alarmed.

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: 7/12/2015 4:15AM 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
X	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 found wrong with the air unit. Video camera records were reviewed. There were stroms and light winds when air unit alarmed.

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: 7/17/2015 8:45AM 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
X	Loss of Radio Communication
	Out of Calibration
	UV Alignment
	Blockage in Air Tube
	Air Quality
X	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) Server lighten storms stopped communication from the air monitors radio to the administration building radio. Air monitor server was re-started on 7/19/ 2015 and web site started updating correctly.

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: 7/18/2015 10:00AM 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
X	Loss of Radio Communication
	Out of Calibration
	UV Alignment
	Blockage in Air Tube
	Air Quality
X	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) Server lighten storms stopped communication from the air monitors radio to the administration building radio on 7/17/2015. Air monitor server was re-started on 7/19/ 2015 and web site started updating correctly.

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: 7/19/2015 10:00AM 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
X	Loss of Radio Communication
	Out of Calibration
	UV Alignment
	Blockage in Air Tube
	Air Quality
X	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) Server lighten storms stopped communication from the air monitors radio to the administration building radio on 7/17/2015. Air monitor server was re-started and web site started updating correctly.

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: 7/22/2015 11:00AM 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
X	Other: Trucks off loading stone

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) Simi-truck driving on top of the dike were creating dust clouds while driving and offloading stone to repair the interior slope of the dike. USACE personal were notified of the alarms. Drivers of the trucks were told to reduce their speeds.

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: 7/25/2015 8:00AM 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
X	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) Video camera records were reviewed. No problems 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: 7/26/2015 12:45PM 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:

	Loss of Power
	Loss of Radio Communication
	Out of Calibration
	UV Alignment
	Blockage in Air Tube
	Air Quality
X	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) Video camera records were reviewed. No problems 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: 7/27/2015 3:45AM 7:30-9:00 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
X	Air Quality
X	Other: Unknown, dry conditions

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) 3:45 alarm:Video camera records were reviewed. No problems found wrong with the air unit.
B) 7:30- 9:00- USACE maintenance personnel are preforming repairs to the interior slopes of the east cell. Truck carrying stone and dirt are kicking up dust from the gravel roads. Lead operator notified the truck drivers to slow down while driving on the site.

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: 7/28/2015 1:15AM 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
X	Air Quality
X	Other: dry conditions

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:

USACE maintenance personnel are preforming repairs to the interior slopes of the east cell. Truck carrying stone and dirt are kicking up dust from the gravel roads. Lead operator notified the truck drivers to slow down while driving on the site.

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: 7/31/2015 3:00AM 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
X	Air Quality
X	Other: dry conditions

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:

USACE maintenance personnel are preforming repairs to the interior slopes of the east cell. Truck carrying stone and dirt are kicking up dust from the gravel roads. Lead operator notified the truck drivers to slow down while driving on the site.