



US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
May 2014

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
5/1/14 12:00 AM	209.00	6.70	4.40	4.10	0.00	4.10	5.20	4.40	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 12:15 AM	207.00	4.00	4.20	3.00	0.00	3.00	5.00	4.20	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 12:30 AM	212.00	5.90	4.30	2.30	0.00	2.30	4.90	4.30	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 12:45 AM	205.00	5.20	4.30	2.20	0.00	2.20	5.10	4.30	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 1:00 AM	229.00	3.70	4.00	0.00	0.00	0.00	4.80	4.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 1:15 AM	229.00	6.70	4.00	2.50	0.00	2.50	4.50	4.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 1:30 AM	225.00	5.50	4.10	2.40	0.00	2.40	4.40	4.10	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 1:45 AM	233.00	4.00	4.10	2.30	0.00	2.30	4.20	4.10	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 2:00 AM	242.00	3.70	5.20	2.80	0.00	2.80	8.30	5.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 2:15 AM	248.00	7.20	8.20	6.40	0.00	6.40	11.30	8.20	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 2:30 AM	239.00	4.30	5.90	0.00	0.00	0.00	6.70	5.90	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 2:45 AM	261.00	6.70	6.40	3.50	0.00	3.50	6.30	6.40	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 3:00 AM	226.00	4.40	4.50	2.40	0.00	2.40	4.70	4.50	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 3:15 AM	246.00	2.70	4.90	2.30	0.00	2.30	4.80	4.90	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 3:30 AM	253.00	3.40	3.70	1.60	0.00	1.60	4.80	3.70	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 3:45 AM	203.00	2.60	3.40	1.80	0.00	1.80	4.40	3.40	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 4:00 AM	217.00	4.20	3.10	1.50	0.00	1.50	3.80	3.10	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 4:15 AM	197.00	5.10	3.00	0.00	0.00	0.00	3.60	3.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 4:30 AM	240.00	4.40	3.10	0.00	0.00	0.00	3.40	3.10	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 4:45 AM	218.00	2.90	3.40	2.80	0.00	2.80	3.40	3.40	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 5:00 AM	227.00	4.60	3.80	3.50	0.00	3.50	3.40	3.80	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 5:15 AM	207.00	5.10	5.10	5.80	0.70	5.80	4.50	5.10	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 5:30 AM	206.00	6.00	4.80	4.10	0.00	4.10	4.30	4.80	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 5:45 AM	216.00	4.40	5.40	3.50	0.00	3.50	4.50	5.40	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 6:00 AM	203.00	4.00	4.50	2.20	0.00	2.20	4.00	4.50	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 6:15 AM	215.00	2.90	4.40	0.00	0.00	0.00	3.80	4.40	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 6:30 AM	253.00	3.60	4.10	0.00	0.00	0.00	4.10	4.10	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 6:45 AM	238.00	6.20	4.20	1.90	0.00	1.90	4.10	4.20	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 7:00 AM	233.00	6.10	5.00	2.70	0.00	2.70	4.20	5.00	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 7:15 AM	218.00	4.50	5.10	2.90	0.00	2.90	4.10	5.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 7:30 AM	248.00	7.00	4.60	3.20	0.00	3.20	3.80	4.60	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 7:45 AM	245.00	6.30	3.90	2.70	0.00	2.70	3.40	3.90	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 8:00 AM	216.00	5.50	3.40	0.00	0.00	0.00	3.00	3.40	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 8:15 AM	234.00	5.10	3.40	2.30	0.00	2.30	3.20	3.40	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 8:30 AM	240.00	4.90	3.40	2.40	0.00	2.40	2.90	3.40	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 8:45 AM	239.00	7.30	3.00	0.00	0.00	0.00	2.80	3.00	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 9:00 AM	213.00	6.70	3.00	0.00	0.00	0.00	2.70	3.00	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 9:15 AM	245.00	5.90	2.80	0.00	0.00	0.00	2.70	2.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 9:30 AM	208.00	8.20	2.90	2.10	0.00	2.10	2.70	2.90	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 9:45 AM	230.00	9.70	2.80	1.90	0.00	1.90	2.30	2.80	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 10:00 AM	252.00	7.70	2.90	0.00	0.00	0.00	2.10	2.90	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 10:15 AM	263.00	7.20	3.30	1.30	0.00	1.30	2.00	3.30	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 10:30 AM	249.00	8.90	2.90	1.10	0.00	1.10	2.10	2.90	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 10:45 AM	255.00	7.50	3.00	1.40	0.00	1.40	2.40	3.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 11:00 AM	248.00	8.00	3.00	1.40	0.00	1.40	2.80	3.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 11:15 AM	248.00	10.20	3.20	1.80	0.00	1.80	2.80	3.20	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 11:30 AM	256.00	7.50	3.50	2.60	0.00	2.60	2.80	3.50	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 11:45 AM	234.00	5.10	3.60	2.90	0.00	2.90	3.00	3.60	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 12:00 PM	255.00	8.70	3.10	2.00	0.00	2.00	2.70	3.10	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 12:15 PM	239.00	8.80	2.40	2.00	0.00	2.00	2.40	2.40	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 12:30 PM	235.00	8.40	2.30	1.20	0.00	1.20	2.10	2.30	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 12:45 PM	262.00	10.30	2.70	1.70	0.00	1.70	2.30	2.70	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 1:00 PM	249.00	10.70	2.60	2.20	0.00	2.20	2.30	2.60	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 1:15 PM	256.00	8.30	2.40	2.70	0.30	2.70	2.30	2.40	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 1:30 PM	267.00	6.20	2.40	3.00	0.60	3.00	2.40	2.40	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 1:45 PM	260.00	5.90	2.80	3.80	1.00	3.80	2.70	2.80	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 2:00 PM	268.00	6.10	3.20	5.50	2.30	5.50	3.00	3.20	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 2:15 PM	252.00	9.60	3.40	4.70	1.30	4.70	3.10	3.40	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 2:30 PM	248.00	7.80	2.70	5.60	2.90	5.60	2.70	2.70	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 2:45 PM	274.00	8.40	8.90	3.00	0.00	6.70	3.00	3.40	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 3:00 PM	259.00	5.40	3.30	5.20	1.90	5.20	2.80	3.30	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 3:15 PM	255.00	6.90	3.40	4.20	0.80	4.20	3.20	3.40	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 3:30 PM	258.00	6.50	3.00	0.00	0.00	0.00	2.80	3.00	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 3:45 PM	257.00	6.70	2.80	2.30	0.00	2.30	2.90	2.80	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 4:00 PM	250.00	5.10	3.20	0.00	0.00	0.00	3.20	3.20	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 4:15 PM	269.00	7.00	4.10	3.00	0.00	3.00	3.60	4.10	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 4:30 PM	265.00	4.80	4.20	3.90	0.00	3.90	4.00	4.20	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 4:45 PM	253.00	5.30	4.60	5.30	0.70	5.30	4.40	4.60	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 5:00 PM	261.00	4.00	4.90	5.40	0.50	5.40	4.60	4.90	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 5:15 PM	246.00	4.80	4.90	4.90	0.00	4.90	4.40	4.90	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 5:30 PM	264.00	6.30	4.70	2.50	0.00	2.50	4.40	4.70	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/14 5:45 PM	267.00	5.00	5.10	0.00	0											



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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
5/2/14 1:15 AM	264.00	5.70	10.40	5.40	0.00	5.40	9.10	10.40	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 1:30 AM	259.00	4.50	9.80	5.80	0.00	5.80	9.00	9.80	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 1:45 AM	285.00	5.70	2.40	8.00	5.60	6.10	8.00	9.30	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 2:00 AM	260.00	4.10	9.00	6.10	0.00	6.10	8.00	9.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 2:15 AM	272.00	3.70	3.60	7.20	3.60	4.70	7.20	8.40	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 2:30 AM	260.00	4.20	8.70	5.10	0.00	5.10	7.40	8.70	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 2:45 AM	250.00	3.50	8.70	5.10	0.00	5.10	7.40	8.70	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 3:00 AM	256.00	5.10	9.10	5.40	0.00	5.40	7.60	9.10	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 3:15 AM	254.00	4.60	8.70	5.30	0.00	5.30	7.60	8.70	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 3:30 AM	256.00	5.10	9.60	5.30	0.00	5.30	8.20	9.60	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 3:45 AM	277.00	3.50	3.20	8.80	5.60	5.20	8.80	10.00	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 4:00 AM	256.00	6.00	10.80	6.10	0.00	6.10	9.10	10.80	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 4:15 AM	275.00	5.10	3.70	9.10	5.40	6.80	9.10	10.90	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 4:30 AM	277.00	4.20	3.70	8.60	4.90	0.00	8.60	9.60	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 4:45 AM	265.00	4.80	8.50	0.00	0.00	0.00	8.00	8.50	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 5:00 AM	279.00	5.60	4.80	7.70	2.90	0.00	7.70	8.50	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 5:15 AM	260.00	3.70	8.60	7.00	0.00	7.00	7.60	8.60	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 5:30 AM	256.00	5.10	8.60	6.80	0.00	6.80	7.90	8.60	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 5:45 AM	279.00	4.30	6.70	8.20	1.50	0.00	8.20	8.60	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 6:00 AM	265.00	4.80	9.40	6.70	0.00	6.70	8.70	9.40	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 6:15 AM	277.00	5.00	5.20	8.30	3.10	6.80	8.30	8.70	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 6:30 AM	264.00	4.70	8.10	6.60	0.00	6.60	7.80	8.10	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 6:45 AM	266.00	6.30	8.50	6.70	0.00	6.70	7.70	8.50	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 7:00 AM	256.00	4.20	9.50	7.40	0.00	7.40	8.10	9.50	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 7:15 AM	258.00	4.10	9.50	0.00	0.00	0.00	8.20	9.50	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 7:30 AM	266.00	5.90	9.40	6.50	0.00	6.50	8.50	9.40	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 7:45 AM	264.00	5.30	9.20	5.90	0.00	5.90	8.40	9.20	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 8:00 AM	249.00	4.60	8.10	5.60	0.00	5.60	8.00	8.10	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 8:15 AM	260.00	4.70	6.90	5.40	0.00	5.40	6.60	6.90	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 8:30 AM	263.00	4.40	6.80	5.90	0.00	5.90	6.60	6.80	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 8:45 AM	256.00	5.90	7.10	6.70	0.00	6.70	6.70	7.10	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 9:00 AM	244.00	5.00	7.50	7.70	0.20	7.70	7.00	7.50	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 9:15 AM	262.00	6.00	7.30	0.00	0.00	0.00	7.00	7.30	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 9:30 AM	259.00	5.40	6.80	7.70	0.90	7.70	6.80	6.80	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 9:45 AM	237.00	5.50	6.80	0.00	0.00	0.00	6.80	6.80	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 10:00 AM	264.00	6.40	8.40	9.00	0.60	9.00	8.40	8.40	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 10:15 AM	238.00	4.30	8.80	9.00	0.20	9.00	8.40	8.80	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 10:30 AM	238.00	5.30	9.10	9.40	0.30	9.40	8.60	9.10	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 10:45 AM	248.00	6.50	7.70	7.80	0.10	7.80	8.00	7.70	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 11:00 AM	264.00	5.00	7.20	7.80	0.60	7.80	7.10	7.20	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 11:15 AM	245.00	4.10	6.80	0.00	0.00	0.00	7.40	6.80	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 11:30 AM	244.00	3.70	7.10	7.20	0.10	7.20	6.90	7.10	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 11:45 AM	262.00	5.20	6.40	7.20	0.80	7.20	6.30	6.40	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 12:00 PM	238.00	5.70	6.50	0.00	0.00	0.00	6.30	6.50	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 12:15 PM	237.00	6.60	7.40	0.00	0.00	0.00	8.40	7.40	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 12:30 PM	211.00	4.50	7.40	7.20	0.00	7.20	7.70	7.40	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 12:45 PM	255.00	5.80	8.10	6.90	0.00	6.90	7.60	8.10	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 1:00 PM	238.00	6.80	8.10	6.30	0.00	6.30	7.00	8.10	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 1:15 PM	236.00	5.20	7.10	4.70	0.00	4.70	6.60	7.10	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 1:30 PM	226.00	7.80	7.10	5.20	0.00	5.20	7.10	7.10	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 1:45 PM	264.00	6.70	7.20	5.80	0.00	5.80	6.90	7.20	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 2:00 PM	254.00	7.00	6.80	6.00	0.00	6.00	6.60	6.80	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 2:15 PM	255.00	4.80	7.00	6.00	0.00	6.00	6.50	7.00	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 2:30 PM	244.00	8.80	7.10	6.50	0.00	6.50	7.00	7.10	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 2:45 PM	254.00	4.80	7.40	0.00	0.00	0.00	6.90	7.40	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 3:00 PM	271.00	4.90	5.80	8.50	2.70	7.70	8.50	9.40	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 3:15 PM	269.00	6.40	9.00	6.50	0.00	6.50	7.80	9.00	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 3:30 PM	234.00	5.40	8.20	0.00	0.00	0.00	7.60	8.20	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 3:45 PM	267.00	6.40	7.20	4.90	0.00	4.90	6.60	7.20	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 4:00 PM	257.00	6.10	7.00	4.50	0.00	4.50	7.20	7.00	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 4:15 PM	253.00	5.60	8.10	5.60	0.00	5.60	7.50	8.10	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 4:30 PM	261.00	7.10	7.90	5.80	0.00	5.80	7.40	7.90	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 4:45 PM	235.00	4.20	7.40	6.20	0.00	6.20	7.20	7.40	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 5:00 PM	244.00	4.10	5.60	5.70	0.10	5.70	5.70	5.60	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 5:15 PM	238.00	5.70	5.20	5.40	0.20	5.40	5.10	5.20	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 5:30 PM	248.00	6.80	4.80	4.70	0.00	4.70	5.00	4.80	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 5:45 PM	228.00	4.60	4.30	4.40	0.10	4.40	4.70	4.30	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 6:00 PM	245.00	6.30	4.90	0.00	0.00	0.00	4.90	4.90	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 6:15 PM	232.00	6.70	4.90	5.70	0.80	5.70	5.00	4.90	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 6:30 PM	256.00	6.10	4.50	5.70	1.20	5.70	4.60	4.50	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 6:45 PM	236.00	5.90	4.30	5.20	0.90	5.20	4.40	4.30	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2/14 7:00 PM	220.00	4.40	4.30	0												



**US Army Corps
of Engineers®**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
May 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
5/4/14 3:45 AM	333.00	3.50	23.90	9.00	0.00	8.90	9.00	9.10	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 4:00 AM	324.00	3.70	20.80	9.00	0.00	0.00	9.00	8.90	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 4:15 AM	317.00	3.10	19.40	9.70	0.00	9.90	9.70	9.30	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 4:30 AM	320.00	5.30	20.70	9.60	0.00	10.30	9.60	9.70	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 4:45 AM	322.00	3.70	19.60	9.70	0.00	9.60	9.70	9.10	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 5:00 AM	333.00	5.00	19.20	10.00	0.00	8.80	10.00	10.00	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 5:15 AM	330.00	3.80	18.20	9.60	0.00	8.50	9.60	9.00	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 5:30 AM	334.00	4.10	16.30	8.90	0.00	7.80	8.90	8.70	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 5:45 AM	341.00	3.40	16.90	9.10	0.00	7.40	9.10	8.20	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 6:00 AM	340.00	3.30	16.60	8.60	0.00	7.60	8.60	7.90	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 6:15 AM	329.00	4.20	16.50	8.80	0.00	8.90	8.80	7.70	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 6:30 AM	333.00	3.60	20.30	9.10	0.00	10.00	9.10	7.90	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 6:45 AM	341.00	3.00	21.90	9.90	0.00	10.90	9.90	8.20	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 7:00 AM	331.00	5.20	27.70	11.10	0.00	10.60	11.10	8.30	27.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 7:15 AM	2.00	5.30	11.80	8.10	0.00	11.80	8.90	8.10	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 7:30 AM	13.00	7.10	10.60	8.30	0.00	10.60	9.00	8.30	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 7:45 AM	2.00	7.50	9.80	8.20	0.00	9.80	9.40	8.20	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 8:00 AM	4.00	6.50	11.40	8.40	0.00	11.40	10.00	8.40	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 8:15 AM	1.00	8.30	0.00	8.60	0.00	0.00	8.90	8.60	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 8:30 AM	1.00	9.60	0.00	8.50	0.00	0.00	8.50	8.50	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 8:45 AM	8.00	9.90	8.20	8.10	0.00	8.20	8.30	8.10	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 9:00 AM	6.00	8.40	8.30	8.20	0.00	8.30	8.30	8.20	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 9:15 AM	7.00	8.00	8.60	8.30	0.00	8.60	8.50	8.30	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 9:30 AM	20.00	7.60	0.00	8.40	0.00	0.00	8.50	8.40	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 9:45 AM	43.00	9.80	12.30	8.70	0.00	12.30	8.30	8.70	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 10:00 AM	34.00	8.90	17.80	8.50	0.00	17.80	14.10	8.50	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 10:15 AM	45.00	8.60	15.40	8.00	0.00	15.40	9.60	8.00	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 10:30 AM	42.00	9.30	35.50	7.90	0.00	35.50	15.10	7.90	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 10:45 AM	40.00	5.80	53.30	8.30	0.00	53.30	15.10	8.30	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 11:00 AM	47.00	9.20	6.80	8.00	1.20	6.80	8.30	8.00	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 11:15 AM	60.00	9.30	6.20	17.90	11.70	6.20	7.40	17.90	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 11:30 AM	67.00	7.60	0.00	11.70	0.00	0.00	7.40	11.70	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 11:45 AM	65.00	7.10	0.00	16.20	0.00	0.00	7.30	16.20	135.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 12:00 PM	68.00	6.50	5.00	7.30	2.30	5.00	7.60	7.30	139.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 12:15 PM	83.00	4.10	0.00	9.20	0.00	0.00	8.20	9.20	47.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 12:30 PM	61.00	5.50	0.00	9.20	0.00	0.00	8.20	9.20	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 12:45 PM	73.00	4.90	9.00	10.20	1.20	9.00	9.70	10.20	97.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 1:00 PM	132.00	3.50	8.40	46.30	37.90	7.10	8.40	8.00	46.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 1:15 PM	135.00	4.30	10.70	9.70	0.00	5.30	10.70	8.10	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 1:30 PM	133.00	4.80	12.40	9.90	0.00	5.90	12.40	6.80	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 1:45 PM	126.00	3.90	13.20	7.30	0.00	6.30	13.20	8.40	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 2:00 PM	124.00	2.20	14.00	23.20	9.20	19.60	14.00	19.60	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 2:15 PM	120.00	3.30	8.30	54.90	46.60	34.60	8.30	7.80	54.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 2:30 PM	94.00	4.40	8.10	56.70	48.60	46.60	8.10	7.80	56.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 2:45 PM	98.00	4.60	8.60	8.70	0.10	0.00	8.60	9.30	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 3:00 PM	101.00	4.50	7.60	7.90	0.30	7.30	7.60	7.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 3:15 PM	80.00	4.60	9.40	8.20	0.00	9.40	7.60	8.20	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 3:30 PM	70.00	4.20	19.30	6.80	0.00	19.30	7.40	6.80	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 3:45 PM	88.00	5.30	9.60	9.00	0.00	9.60	9.50	9.00	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 4:00 PM	105.00	4.80	8.00	21.10	13.10	0.00	8.00	9.00	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 4:15 PM	88.00	3.60	7.30	9.00	1.70	7.30	7.90	9.00	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 4:30 PM	84.00	5.60	9.70	9.50	0.00	9.70	8.00	9.50	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 4:45 PM	76.00	4.40	10.50	10.00	0.00	10.50	7.10	10.00	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 5:00 PM	92.00	4.20	6.70	11.20	4.50	6.40	6.70	6.80	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 5:15 PM	80.00	4.80	11.90	6.70	0.00	11.90	7.00	6.70	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 5:30 PM	100.00	4.60	7.00	13.40	6.40	0.00	7.00	6.70	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 5:45 PM	62.00	6.70	10.70	7.70	0.00	10.70	8.20	7.70	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 6:00 PM	62.00	5.40	8.70	9.50	0.80	8.70	9.40	9.50	67.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 6:15 PM	83.00	5.30	10.30	8.70	0.00	10.30	9.50	8.70	36.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 6:30 PM	101.00	5.10	9.00	36.70	27.70	10.40	9.00	10.40	36.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 6:45 PM	93.00	5.60	7.90	34.40	26.50	13.40	7.90	8.90	34.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 7:00 PM	68.00	7.40	12.90	8.70	0.00	12.90	7.60	8.70	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 7:15 PM	64.00	6.00	11.70	9.10	0.00	11.70	7.90	9.10	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 7:30 PM	75.00	5.60	14.60	9.50	0.00	14.60	9.00	9.50	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 7:45 PM	83.00	4.10	0.00	14.10	0.00	0.00	8.00	14.10	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 8:00 PM	82.00	5.40	39.00	34.60	0.00	39.00	12.30	34.60	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 8:15 PM	87.00	4.70	65.20	19.70	0.00	65.20	9.40	19.70	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 8:30 PM	87.00	5.60	0.00	11.90	0.00	0.00	8.70	11.90	52.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 8:45 PM	83.00	3.00	13.40	14.00	0.60	13.40	11.30	14.00	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 9:00 PM	102.00	2.90	8.00	12.60	4.60	15.70	8.00	9.50	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/14 9:15 PM	97.00	5.20	8.20	14.70	6.50	14.50	8.20									



**US Army Corps
of Engineers**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
May 2014

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
5/6/14 6:15 AM	102.00	3.60	20.70	20.90	0.20	31.30	20.70	19.00	20.90	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 6:30 AM	82.00	3.50	25.80	24.00	0.00	25.80	21.30	24.00	23.30	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 6:45 AM	102.00	2.60	22.60	24.10	1.50	20.40	22.60	22.80	24.10	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 7:00 AM	126.00	3.50	23.70	19.10	0.00	0.00	23.70	22.80	19.10	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 7:15 AM	125.00	4.40	26.70	14.60	0.00	0.00	26.70	28.60	14.60	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 7:30 AM	128.00	4.20	30.80	16.00	0.00	16.20	30.80	40.20	16.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 7:45 AM	120.00	2.50	34.00	18.50	0.00	16.20	34.00	30.30	18.50	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 8:00 AM	102.00	1.60	36.00	21.50	0.00	21.50	36.00	26.80	21.50	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 8:15 AM	90.00	4.20	34.40	21.40	0.00	19.00	34.40	31.60	21.40	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 8:30 AM	76.00	3.40	20.60	27.10	6.50	20.60	36.60	27.10	17.40	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 8:45 AM	69.00	3.60	18.50	28.60	10.10	18.50	43.70	28.60	18.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 9:00 AM	81.00	3.80	16.30	33.40	17.10	16.30	37.30	33.40	18.40	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 9:15 AM	96.00	4.50	33.30	20.40	0.00	17.40	33.30	31.10	20.40	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 9:30 AM	112.00	6.10	33.80	19.90	0.00	22.70	33.80	27.80	19.90	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 9:45 AM	107.00	5.00	30.70	22.90	0.00	19.90	30.70	25.60	22.90	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 10:00 AM	65.00	5.50	27.60	21.60	0.00	27.60	29.70	21.60	42.40	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 10:15 AM	59.00	7.40	45.10	31.10	0.00	45.10	29.30	31.10	44.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 10:30 AM	62.00	5.90	38.30	28.00	0.00	38.30	31.90	28.00	58.70	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 10:45 AM	67.00	7.00	33.10	32.20	0.00	33.10	34.60	32.20	32.70	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 11:00 AM	61.00	5.40	39.10	37.90	0.00	39.10	40.00	37.90	39.10	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 11:15 AM	48.00	6.10	44.10	45.80	1.70	44.10	44.70	45.80	31.90	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 11:30 AM	60.00	6.00	66.70	39.30	0.00	66.70	59.50	39.30	59.20	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 11:45 AM	26.00	5.50	61.00	51.30	0.00	61.00	64.90	51.30	55.90	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 12:00 PM	49.00	6.00	95.50	97.30	1.80	95.50	89.70	97.30	55.60	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 12:15 PM	49.00	6.90	59.60	60.20	0.60	59.60	83.20	60.20	57.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 12:30 PM	58.00	5.00	59.60	67.70	8.10	59.60	79.60	67.70	54.90	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 12:45 PM	43.00	6.40	75.70	64.10	0.00	75.70	90.10	64.10	85.40	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 1:00 PM	37.00	6.90	75.70	52.50	0.00	75.70	67.50	52.50	50.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 1:15 PM	40.00	8.40	57.10	66.90	9.80	57.10	72.80	66.90	56.60	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 1:30 PM	59.00	7.10	0.00	59.50	0.00	0.00	79.60	59.50	54.40	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 1:45 PM	42.00	8.00	42.70	46.70	4.00	42.70	66.10	46.70	71.50	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 2:00 PM	41.00	8.60	52.00	60.70	8.70	52.00	68.20	60.70	155.30	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 2:15 PM	33.00	8.60	54.20	54.80	0.60	54.20	78.50	54.80	191.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 2:30 PM	57.00	6.60	60.00	52.90	0.00	60.00	78.40	52.90	191.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 2:45 PM	55.00	9.00	49.10	52.30	3.20	49.10	81.40	52.30	172.30	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 3:00 PM	43.00	9.70	50.00	44.80	0.00	50.00	62.50	44.80	179.20	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 3:15 PM	53.00	6.70	41.00	40.90	0.00	41.00	55.30	40.90	179.20	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 3:30 PM	41.00	7.00	59.30	57.40	0.00	59.30	78.30	57.40	249.90	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 3:45 PM	44.00	7.00	75.20	60.90	0.00	75.20	63.80	60.90	270.90	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 4:00 PM	37.00	5.20	75.20	48.60	0.00	75.20	64.90	48.60	201.50	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 4:15 PM	35.00	7.40	51.50	45.10	0.00	51.50	73.20	45.10	211.80	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 4:30 PM	42.00	7.40	55.10	58.40	3.30	55.10	92.10	58.40	218.60	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 4:45 PM	47.00	7.20	55.20	49.90	0.00	55.20	74.00	49.90	101.30	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 5:00 PM	39.00	5.90	57.90	66.00	8.10	57.90	84.40	66.00	70.50	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 5:15 PM	51.00	5.00	63.10	67.50	4.40	63.10	93.50	67.50	69.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 5:30 PM	37.00	5.80	66.30	64.90	0.00	66.30	95.20	64.90	66.90	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 5:45 PM	27.00	3.10	56.80	59.50	2.70	56.80	100.30	59.50	70.40	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 6:00 PM	85.00	4.90	43.70	62.60	18.90	43.70	89.20	62.60	65.90	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 6:15 PM	76.00	4.30	44.50	55.50	11.00	44.50	91.30	55.50	133.80	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 6:30 PM	68.00	4.20	56.30	72.30	16.00	56.30	82.10	72.30	54.60	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 6:45 PM	61.00	3.10	56.00	67.00	11.00	56.00	102.00	67.00	60.20	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 7:00 PM	45.00	2.80	100.20	87.20	0.00	100.20	97.00	87.20	138.80	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 7:15 PM	172.00	3.00	72.10	157.60	85.50	80.50	72.10	66.40	157.60	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 7:30 PM	55.00	1.40	0.00	51.10	0.00	0.00	83.00	51.10	82.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 7:45 PM	54.00	1.30	57.20	55.60	0.00	57.20	60.60	55.60	98.10	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 8:00 PM	130.00	3.80	78.20	58.60	0.00	0.00	78.20	73.40	58.60	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 8:15 PM	118.00	3.80	111.30	76.50	0.00	85.90	111.30	86.20	76.50	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 8:30 PM	121.00	6.30	44.00	25.00	0.00	22.70	44.00	48.50	25.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 8:45 PM	132.00	4.00	85.70	34.60	0.00	24.50	85.70	56.00	34.60	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 9:00 PM	133.00	6.00	69.00	34.70	0.00	24.50	69.00	55.30	34.70	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 9:15 PM	140.00	5.60	33.50	28.00	0.00	28.30	33.50	27.70	28.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 9:30 PM	128.00	9.80	43.00	33.50	0.00	28.40	43.00	36.30	33.50	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 9:45 PM	130.00	4.30	35.90	48.30	12.40	32.10	35.90	27.50	48.30	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 10:00 PM	127.00	6.40	32.40	35.20	2.80	32.10	32.40	28.20	35.20	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 10:15 PM	109.00	7.30	41.10	38.80	0.00	43.00	41.10	31.40	38.80	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 10:30 PM	109.00	4.60	42.50	106.60	64.10	43.50	42.50	106.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 10:45 PM	98.00	4.60	35.90	58.30	22.40	60.10	35.90	27.20	58.30	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 11:00 PM	125.00	5.30	39.30	48.20	8.90	46.20	39.30	30.20	48.20	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 11:15 PM	129.00	5.80	49.90	22.00	0.00	19.60	49.90	37.00	22.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 11:30 PM	132.00	6.10	48.20	19.60	0.00	17.30	48.20	38.00	19.60	0.00	0.00	0.00	0.00	0.00	0.00	
5/6/14 11:45 PM	142.00	6.50	76.40	21.30	0.00	17.30	76.40	32.90	21.30	0.00	0.00	0.00	0.00	0.00	0.00	
5/7/14 12:00 AM	136.00	3.90	40.20	19.10	0.00	25.70	40.20	31.50	19.10	0.00	0.00	0.00	0.00	0.00	0.00	
5/7/14 12:15 AM	139.00	4.70	35.10	25.80	0.00	32.50	35.10	28.30	25.80	0.0						



Table with columns for Reading Time (EST), Wind Direction, Wind Speed, Particulates (µg/m³), and Naphthalene (µg/m³). The table contains 117 rows of monitoring data.



US Army Corps
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Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
May 2014

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		
5/8/14 9:00 AM	223.00	5.50	30.20	29.00	0.00	29.00	32.90	30.20	28.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 9:15 AM	219.00	6.70	31.40	29.00	0.00	29.00	34.30	31.40	28.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 9:30 AM	222.00	6.90	33.80	34.90	1.10	34.90	34.50	33.80	28.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 9:45 AM	199.00	6.60	31.40	30.10	0.00	30.10	37.60	31.40	27.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 10:00 AM	204.00	7.60	30.20	29.80	0.00	29.80	33.40	30.20	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 10:15 AM	206.00	3.80	30.50	29.00	0.00	29.00	33.70	30.50	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 10:30 AM	195.00	3.90	30.90	31.90	1.00	31.90	36.30	30.90	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 10:45 AM	214.00	7.30	30.80	33.70	2.90	33.70	35.00	30.80	30.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 11:00 AM	249.00	4.40	30.60	31.00	0.40	31.00	33.40	30.60	28.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 11:15 AM	199.00	9.20	28.70	29.00	0.30	29.00	34.20	28.70	28.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 11:30 AM	202.00	7.40	28.80	30.40	1.60	30.40	34.50	28.80	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 11:45 AM	226.00	5.90	29.80	31.80	2.00	31.80	32.00	29.80	30.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 12:00 PM	220.00	6.80	29.70	30.50	0.80	30.50	32.30	29.70	30.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 12:15 PM	259.00	7.70	29.20	0.00	0.00	0.00	32.30	29.20	28.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 12:30 PM	202.00	9.60	32.70	31.40	0.00	31.40	36.10	32.70	34.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 12:45 PM	221.00	8.30	27.50	30.30	2.80	30.30	32.80	27.50	29.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 1:00 PM	228.00	6.70	27.80	27.90	0.10	27.90	31.30	27.80	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 1:15 PM	201.00	8.50	28.30	28.10	0.00	28.10	33.50	28.30	29.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 1:30 PM	246.00	6.90	35.20	40.80	5.60	40.80	37.30	35.20	36.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 1:45 PM	192.00	4.00	30.70	32.10	1.40	32.10	43.50	30.70	31.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 2:00 PM	214.00	9.00	32.20	29.70	0.00	29.70	36.40	32.20	33.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 2:15 PM	205.00	5.90	36.80	29.70	0.00	29.70	33.60	36.80	30.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 2:30 PM	210.00	8.60	30.90	31.60	0.70	31.60	39.50	30.90	32.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 2:45 PM	216.00	7.90	32.20	33.00	0.80	33.00	47.20	32.20	32.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 3:00 PM	215.00	9.00	31.90	33.20	1.30	33.20	35.80	31.90	32.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 3:15 PM	212.00	8.40	32.40	38.20	5.80	38.20	41.60	32.40	37.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 3:30 PM	223.00	5.90	33.30	34.40	1.10	34.40	38.90	33.30	34.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 3:45 PM	212.00	3.40	34.10	38.50	4.40	38.50	47.80	34.10	33.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 4:00 PM	221.00	5.30	33.60	35.60	2.00	35.60	59.60	33.60	42.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 4:15 PM	216.00	4.40	32.00	34.50	2.50	34.50	36.30	32.00	35.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 4:30 PM	189.00	7.30	40.20	32.20	0.00	32.20	39.80	40.20	40.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 4:45 PM	216.00	7.80	32.70	32.60	0.00	32.60	33.80	32.70	38.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 5:00 PM	231.00	7.50	34.30	31.90	0.00	31.90	38.70	34.30	43.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 5:15 PM	187.00	8.20	30.50	29.20	0.00	29.20	33.90	30.50	37.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 5:30 PM	206.00	6.60	40.00	38.30	0.00	38.30	37.30	40.00	46.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 5:45 PM	208.00	11.30	39.70	37.10	0.00	37.10	33.20	39.70	44.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 6:00 PM	197.00	6.20	41.70	39.80	0.00	39.80	38.40	41.70	38.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 6:15 PM	185.00	7.90	36.00	39.80	3.80	39.80	41.40	36.00	45.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 6:30 PM	202.00	7.10	36.10	0.00	0.00	0.00	54.10	36.10	70.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 6:45 PM	181.00	7.10	63.80	63.70	0.00	63.70	54.10	63.80	90.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 7:00 PM	197.00	8.40	52.20	95.70	43.50	95.70	60.10	52.20	81.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 7:15 PM	194.00	11.90	46.20	66.60	20.40	66.60	54.30	46.20	101.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 7:30 PM	211.00	7.40	45.90	61.90	16.00	61.90	60.30	45.90	71.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 7:45 PM	206.00	9.30	42.20	0.00	0.00	0.00	54.10	42.20	74.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 8:00 PM	203.00	8.30	41.40	0.00	0.00	0.00	50.40	41.40	74.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 8:15 PM	205.00	5.90	42.80	50.20	7.40	50.20	64.40	42.80	50.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 8:30 PM	216.00	6.50	41.80	47.30	5.50	47.30	49.20	41.80	47.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 8:45 PM	230.00	7.40	40.40	40.40	0.00	40.40	48.10	40.40	46.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 9:00 PM	219.00	5.60	43.40	41.30	0.00	41.30	48.60	43.40	47.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 9:15 PM	210.00	7.80	39.50	0.00	0.00	0.00	47.10	39.50	47.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 9:30 PM	231.00	6.90	39.00	37.20	0.00	37.20	51.40	39.00	44.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 9:45 PM	224.00	5.80	37.50	36.00	0.00	36.00	46.60	37.50	41.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 10:00 PM	213.00	9.90	38.60	34.50	0.00	34.50	46.60	38.60	40.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 10:15 PM	213.00	6.00	37.90	0.00	0.00	0.00	44.00	37.90	43.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 10:30 PM	203.00	7.10	38.10	34.60	0.00	34.60	45.80	38.10	43.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 10:45 PM	197.00	6.10	38.40	34.60	0.00	34.60	48.80	38.40	42.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 11:00 PM	214.00	6.10	39.60	38.00	0.00	38.00	47.40	39.60	43.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 11:15 PM	200.00	5.60	38.80	37.80	0.00	37.80	46.80	38.80	43.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 11:30 PM	206.00	7.50	38.60	36.40	0.00	36.40	46.20	38.60	41.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/8/14 11:45 PM	214.00	6.90	38.10	37.20	0.00	37.20	44.90	38.10	41.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 12:00 AM	258.00	10.70	38.10	35.60	0.00	35.60	45.00	38.10	40.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 12:15 AM	240.00	5.00	38.80	36.80	0.00	36.80	44.50	38.80	42.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 12:30 AM	242.00	5.20	39.90	36.70	0.00	36.70	48.60	39.90	40.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 12:45 AM	223.00	4.60	37.70	35.10	0.00	35.10	43.60	37.70	40.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 1:00 AM	240.00	3.40	37.20	38.50	1.30	38.50	44.20	37.20	48.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 1:15 AM	256.00	3.30	27.30	22.40	0.00	22.40	33.70	27.30	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 1:30 AM	244.00	4.80	27.30	17.30	0.00	17.30	31.00	27.30	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 1:45 AM	248.00	7.00	24.60	13.90	0.00	13.90	26.80	24.60	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 2:00 AM	223.00	11.00	23.60	15.60	0.00	15.60	27.50	23.60	19.80	0.00	0.00	0.00	0.00					



US Army Corps
of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
May 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
5/9/14 10:15 AM	179.00	6.20	18.40	13.60	0.00	76.40	18.40	16.00	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 10:30 AM	195.00	7.40	15.70	69.30	53.60	69.30	16.00	15.70	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 10:45 AM	197.00	7.70	13.80	63.90	50.10	63.90	13.80	13.80	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 11:00 AM	209.00	10.60	15.00	67.50	52.50	67.50	15.80	15.00	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 11:15 AM	187.00	8.50	15.00	67.50	52.50	67.50	15.80	15.00	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 11:30 AM	222.00	4.30	14.20	-3.50	0.00	-3.50	13.70	14.20	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 11:45 AM	223.00	6.10	12.90	-3.50	0.00	-3.50	12.90	12.90	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 12:00 PM	209.00	7.00	13.30	13.90	0.60	13.90	13.10	13.30	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 12:15 PM	217.00	7.20	12.80	15.20	2.40	15.20	13.10	12.80	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 12:30 PM	243.00	9.40	12.20	16.40	4.20	16.40	12.90	12.20	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 12:45 PM	218.00	5.40	14.90	24.50	9.60	24.50	14.60	14.90	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 1:00 PM	259.00	9.60	16.70	23.40	6.70	23.40	15.00	16.70	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 1:15 PM	259.00	7.00	18.80	29.80	11.00	29.80	17.50	18.80	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 1:30 PM	252.00	10.70	17.50	31.10	13.60	31.10	17.40	17.50	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 1:45 PM	253.00	9.80	14.60	32.60	18.00	32.60	16.70	14.60	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 2:00 PM	252.00	8.30	10.10	0.00	0.00	0.00	13.10	10.10	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 2:15 PM	264.00	8.10	9.10	24.40	15.30	24.40	11.90	9.10	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 2:30 PM	251.00	9.60	9.10	24.10	15.00	24.10	11.80	9.10	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 2:45 PM	267.00	9.30	9.70	23.90	14.20	23.90	10.60	9.70	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 3:00 PM	252.00	7.90	9.20	24.80	15.60	24.80	10.20	9.20	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 3:15 PM	246.00	8.60	7.60	18.30	10.70	18.30	8.90	7.60	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 3:30 PM	232.00	11.10	6.90	14.40	7.50	14.40	8.30	6.90	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 3:45 PM	244.00	7.30	6.80	10.70	3.90	10.70	8.30	6.80	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 4:00 PM	243.00	8.00	5.90	7.40	1.50	7.40	6.80	5.90	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 4:15 PM	245.00	6.70	5.20	7.40	2.20	7.40	6.60	5.20	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 4:30 PM	256.00	7.30	4.70	5.50	0.80	5.50	6.20	4.70	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 4:45 PM	265.00	6.70	4.40	7.00	2.60	7.00	6.20	4.40	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 5:00 PM	260.00	7.10	4.50	7.10	2.60	7.10	6.20	4.50	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 5:15 PM	249.00	10.20	4.60	7.60	3.00	7.60	6.20	4.60	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 5:30 PM	266.00	7.20	4.80	0.00	0.00	0.00	6.30	4.80	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 5:45 PM	244.00	7.70	5.10	11.20	6.10	11.20	6.60	5.10	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 6:00 PM	252.00	11.40	5.50	10.40	4.90	10.40	6.70	5.50	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 6:15 PM	265.00	7.40	4.80	5.60	0.80	5.60	6.40	4.80	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 6:30 PM	260.00	8.40	4.80	6.60	1.80	6.60	7.20	4.80	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 6:45 PM	251.00	6.80	5.10	7.20	2.10	7.20	7.10	5.10	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 7:00 PM	290.00	5.50	9.40	7.00	0.00	7.00	7.00	5.60	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 7:15 PM	271.00	5.80	9.50	7.00	0.00	8.00	7.00	5.60	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 7:30 PM	297.00	5.10	9.90	7.40	0.00	9.60	7.40	5.70	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 7:45 PM	289.00	5.50	9.80	7.60	0.00	11.40	7.60	6.50	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 8:00 PM	305.00	5.50	9.80	7.60	0.00	10.60	7.60	6.90	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 8:15 PM	323.00	5.10	10.60	7.20	0.00	8.50	7.20	6.60	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 8:30 PM	313.00	3.90	11.00	7.80	0.00	11.10	7.80	7.50	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 8:45 PM	310.00	4.60	11.70	8.30	0.00	10.40	8.30	7.90	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 9:00 PM	286.00	4.00	15.10	8.70	0.00	15.40	8.70	7.90	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 9:15 PM	324.00	4.90	16.20	9.60	0.00	18.50	9.60	9.40	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 9:30 PM	299.00	3.90	16.80	10.10	0.00	19.80	10.10	10.20	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 9:45 PM	320.00	5.90	15.50	11.30	0.00	19.70	11.30	10.90	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 10:00 PM	318.00	4.60	15.10	11.20	0.00	18.80	11.20	11.30	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 10:15 PM	305.00	4.30	14.60	11.60	0.00	0.00	11.60	11.40	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 10:30 PM	325.00	4.20	13.50	12.40	0.00	19.10	12.40	11.90	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 10:45 PM	319.00	4.20	13.10	12.40	0.00	19.10	12.40	11.90	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 11:00 PM	290.00	3.60	13.30	12.40	0.00	19.10	12.40	11.90	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 11:15 PM	274.00	2.00	14.20	13.30	0.00	19.10	13.30	12.80	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 11:30 PM	281.00	2.00	13.90	13.60	0.00	19.10	13.60	13.10	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/14 11:45 PM	279.00	2.40	14.30	12.00	0.00	19.10	12.00	11.30	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 12:00 AM	280.00	2.10	13.10	11.60	0.00	19.10	11.60	11.40	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 12:15 AM	251.00	2.10	12.00	19.10	7.10	19.10	11.50	12.00	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 12:30 AM	281.00	2.10	15.40	12.60	0.00	19.10	12.60	12.90	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 12:45 AM	288.00	2.20	14.10	0.00	0.00	19.10	0.00	12.90	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 1:00 AM	276.00	2.00	14.20	15.50	1.30	19.10	15.50	12.30	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 1:15 AM	322.00	1.70	13.90	17.40	3.50	19.10	17.40	12.60	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 1:30 AM	291.00	2.40	12.60	17.60	5.00	19.10	17.60	13.00	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 1:45 AM	201.00	1.10	13.30	19.10	5.80	19.10	17.20	13.30	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 2:00 AM	246.00	1.00	14.20	19.10	4.90	19.10	17.80	14.20	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 2:15 AM	208.00	0.90	14.10	19.10	5.00	19.10	16.90	14.10	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 2:30 AM	197.00	1.10	14.10	19.10	5.00	19.10	15.90	14.10	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 2:45 AM	249.00	1.10	14.40	19.10	4.70	19.10	15.60	14.40	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 3:00 AM	206.00	1.20	15.10	19.10	4.00	19.10	15.90	15.10	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 3:15 AM	214.00	1.10	16.60	19.10	2.50	19.10	16.80	16.60	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 3:30 AM	238.00	0.90	20.80	19.10														



Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
5/10/14 11:30 AM	305.00	3.80	14.50	12.50	0.00	4.20	12.50	12.40	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 11:45 AM	252.00	3.20	11.80	4.10	0.00	4.10	12.40	11.80	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 12:00 PM	282.00	4.60	16.20	11.60	0.00	4.80	11.60	11.20	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 12:15 PM	274.00	3.80	16.10	11.80	0.00	0.00	11.80	11.20	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 12:30 PM	265.00	5.30	11.40	0.00	0.00	0.00	12.00	11.40	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 12:45 PM	270.00	3.60	16.20	11.10	0.00	0.00	11.10	10.70	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 1:00 PM	15.00	2.20	0.00	11.20	0.00	0.00	11.20	11.20	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 1:15 PM	327.00	3.50	17.80	11.90	0.00	0.00	11.90	11.40	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 1:30 PM	296.00	3.90	18.20	11.90	0.00	0.00	11.90	11.20	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 1:45 PM	261.00	2.80	11.20	0.00	0.00	0.00	12.70	11.20	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 2:00 PM	295.00	3.60	19.10	13.00	0.00	0.00	13.00	11.20	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 2:15 PM	309.00	4.20	20.10	13.20	0.00	0.00	13.20	11.90	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 2:30 PM	286.00	2.50	19.10	13.30	0.00	0.00	13.30	12.30	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 2:45 PM	329.00	1.30	18.50	12.20	0.00	0.00	12.20	11.20	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 3:00 PM	295.00	6.00	19.40	13.10	0.00	0.00	13.10	11.40	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 3:15 PM	261.00	3.10	11.30	0.00	0.00	0.00	13.20	11.30	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 3:30 PM	324.00	4.40	19.60	13.00	0.00	0.00	13.00	11.80	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 3:45 PM	334.00	2.90	20.70	13.60	0.00	0.00	13.60	11.90	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 4:00 PM	299.00	3.30	19.20	13.90	0.00	0.00	13.90	11.80	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 4:15 PM	323.00	3.90	18.90	14.10	0.00	0.00	14.10	12.30	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 4:30 PM	249.00	4.90	12.30	0.00	0.00	0.00	13.90	12.30	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 4:45 PM	264.00	4.40	11.60	0.00	0.00	0.00	13.30	11.60	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 5:00 PM	298.00	3.90	17.40	13.60	0.00	0.00	13.60	11.90	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 5:15 PM	263.00	5.00	11.80	0.00	0.00	0.00	13.80	11.80	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 5:30 PM	288.00	1.90	15.40	13.10	0.00	0.00	13.10	12.00	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 5:45 PM	261.00	4.30	12.00	0.00	0.00	0.00	13.50	12.00	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 6:00 PM	307.00	2.10	14.40	13.90	0.00	0.00	13.90	12.10	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 6:15 PM	296.00	1.50	13.90	13.60	0.00	0.00	13.60	11.60	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 6:30 PM	251.00	2.70	11.90	0.00	0.00	0.00	13.60	11.90	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 6:45 PM	78.00	3.80	0.00	12.20	0.00	0.00	13.60	12.20	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 7:00 PM	96.00	3.50	13.10	13.60	0.50	0.00	13.10	12.00	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 7:15 PM	91.00	4.30	13.00	13.80	0.80	0.00	13.00	11.90	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 7:30 PM	97.00	3.50	13.80	13.70	0.00	0.00	13.80	12.20	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 7:45 PM	80.00	5.20	0.00	12.10	0.00	0.00	13.40	12.10	44.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 8:00 PM	82.00	3.80	0.00	17.20	0.00	0.00	20.00	17.20	27.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 8:15 PM	127.00	4.80	19.10	30.80	11.70	0.00	19.10	19.80	30.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 8:30 PM	147.00	3.00	17.70	33.60	15.90	0.00	17.70	20.80	33.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 8:45 PM	140.00	2.10	18.10	25.40	7.30	0.00	18.10	19.00	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 9:00 PM	132.00	1.20	18.80	33.80	15.00	0.00	18.80	19.90	33.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 9:15 PM	133.00	1.40	19.70	20.10	0.40	0.00	19.70	19.90	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 9:30 PM	130.00	1.70	22.20	26.70	4.50	0.00	22.20	28.60	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 9:45 PM	162.00	1.70	25.20	46.30	21.10	0.00	25.20	24.80	46.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 10:00 PM	172.00	1.80	24.80	31.40	6.60	0.00	24.80	25.00	31.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 10:15 PM	195.00	2.00	24.40	0.00	0.00	0.00	24.70	24.40	31.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 10:30 PM	184.00	1.80	34.20	0.00	0.00	0.00	35.30	34.20	39.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 10:45 PM	179.00	2.70	36.00	42.60	6.60	0.00	36.00	37.00	42.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 11:00 PM	196.00	2.40	36.40	0.00	0.00	0.00	36.50	36.40	32.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 11:15 PM	193.00	2.70	38.30	0.00	0.00	0.00	34.30	38.30	38.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 11:30 PM	172.00	2.70	38.80	42.60	3.80	0.00	38.80	43.50	42.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/10/14 11:45 PM	173.00	2.40	40.60	40.40	0.00	0.00	40.60	38.70	40.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/11/14 12:00 AM	165.00	2.60	34.80	37.30	2.50	0.00	34.80	33.40	37.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/11/14 12:15 AM	188.00	2.90	30.40	0.00	0.00	0.00	31.00	30.40	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/11/14 12:30 AM	167.00	2.40	29.60	27.90	0.00	0.00	29.60	29.70	27.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/11/14 12:45 AM	186.00	3.80	27.50	0.00	0.00	0.00	28.90	27.50	26.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/11/14 1:00 AM	215.00	2.90	28.00	0.00	0.00	0.00	27.70	28.00	26.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/11/14 1:15 AM	192.00	3.60	27.00	0.00	0.00	0.00	28.00	27.00	25.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/11/14 1:30 AM	173.00	3.30	30.20	31.50	1.30	0.00	30.20	28.00	31.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/11/14 1:45 AM	179.00	3.50	29.30	31.80	2.50	0.00	29.30	27.70	31.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/11/14 2:00 AM	168.00	2.20	26.30	27.00	0.70	0.00	26.30	26.10	27.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/11/14 2:15 AM	181.00	2.30	25.50	0.00	0.00	0.00	25.00	25.50	27.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/11/14 2:30 AM	189.00	2.50	24.60	0.00	0.00	0.00	23.20	24.60	24.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/11/14 2:45 AM	178.00	3.10	22.70	25.60	2.90	0.00	22.70	23.70	25.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/11/14 3:00 AM	181.00	2.80	22.90	0.00	0.00	0.00	21.50	22.90	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/11/14 3:15 AM	178.00	2.80	21.50	23.60	2.10	0.00	21.50	22.80	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/11/14 3:30 AM	177.00	2.70	21.30	24.00	2.70	0.00	21.30	22.80	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/11/14 3:45 AM	167.00	2.30	20.40	22.90	2.50	0.00	20.40	22.90	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/11/14 4:00 AM	172.00	2.90	21.10	24.00	2.90	0.00	21.10	23.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/11/14 4:15 AM	173.00	2.90	21.10	21.70	0.60	0.00	21.10	22.90	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/11/14 4:30 AM	198.00	2.50	22.00	0.00	0.00	0.00	20.70	22.00	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		



US Army Corps
of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
May 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
5/12/14 2:15 PM	223.00	6.90	15.70	16.20	0.50	16.20	15.50	15.70	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 2:30 PM	185.00	6.40	14.90	16.20	1.30	16.20	15.30	14.90	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 2:45 PM	212.00	4.30	15.10	16.20	1.10	16.20	15.90	15.10	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 3:00 PM	215.00	7.10	14.90	16.20	1.30	16.20	15.20	14.90	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 3:15 PM	0.00	0.00	0.00	0.00	0.00	16.20	15.20	15.70	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 3:30 PM	190.00	5.80	15.80	16.20	0.40	16.20	15.80	15.80	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 3:45 PM	189.00	7.60	16.40	16.20	0.00	16.20	16.40	16.40	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 4:00 PM	200.00	5.50	16.30	16.20	0.00	16.20	17.00	16.30	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 4:15 PM	213.00	5.00	16.10	16.20	0.10	16.20	15.30	16.10	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 4:30 PM	234.00	6.20	15.10	16.20	1.10	16.20	15.20	15.10	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 4:45 PM	202.00	5.30	14.30	16.20	1.90	16.20	14.90	14.30	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 5:00 PM	202.00	4.70	13.80	16.20	2.40	16.20	14.40	13.80	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 5:15 PM	213.00	6.40	13.90	16.20	2.30	16.20	14.30	13.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 5:30 PM	196.00	9.50	13.40	16.20	2.80	16.20	15.00	13.40	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 5:45 PM	212.00	6.80	12.60	16.20	3.60	16.20	13.70	12.60	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 6:00 PM	199.00	9.20	12.50	16.20	3.70	16.20	13.60	12.50	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 6:15 PM	184.00	6.00	13.80	16.20	2.40	16.20	14.10	13.80	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 6:30 PM	199.00	8.40	13.00	16.20	3.20	16.20	14.60	13.00	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 6:45 PM	205.00	6.80	13.00	16.20	3.20	16.20	14.00	13.00	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 7:00 PM	188.00	6.60	13.30	16.20	2.90	16.20	14.00	13.30	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 7:15 PM	189.00	7.80	14.70	16.20	1.50	16.20	15.10	14.70	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 7:30 PM	205.00	5.00	15.90	16.20	0.30	16.20	15.50	15.90	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 7:45 PM	205.00	6.80	17.10	16.20	0.00	16.20	16.10	17.10	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 8:00 PM	207.00	4.90	17.90	16.20	0.00	16.20	16.80	17.90	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 8:15 PM	205.00	7.00	18.70	16.20	0.00	16.20	17.20	18.70	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 8:30 PM	180.00	6.20	19.00	16.20	0.00	16.20	17.60	19.00	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 8:45 PM	182.00	5.10	19.40	16.20	0.00	16.20	17.80	19.40	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 9:00 PM	182.00	5.90	19.40	16.20	0.00	16.20	17.80	19.40	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 9:15 PM	195.00	7.30	19.20	16.20	0.00	16.20	17.70	19.20	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 9:30 PM	194.00	6.60	19.40	16.20	0.00	16.20	17.40	19.40	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 9:45 PM	225.00	6.10	21.00	16.20	0.00	16.20	18.90	21.00	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 10:00 PM	200.00	6.30	22.30	16.20	0.00	16.20	19.90	22.30	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 10:15 PM	229.00	8.20	22.90	16.20	0.00	16.20	20.90	22.90	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 10:30 PM	225.00	7.70	23.60	16.20	0.00	16.20	21.60	23.60	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 10:45 PM	219.00	7.50	23.80	16.20	0.00	16.20	21.90	23.80	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 11:00 PM	179.00	6.40	22.70	19.20	0.00	16.20	22.70	24.10	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 11:15 PM	182.00	5.00	24.20	16.20	0.00	16.20	22.70	24.20	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 11:30 PM	214.00	5.90	24.50	16.20	0.00	16.20	22.60	24.50	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/14 11:45 PM	214.00	6.80	24.60	16.20	0.00	16.20	22.90	24.60	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 12:00 AM	301.00	9.90	18.40	22.60	4.20	16.20	22.60	25.00	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 12:15 AM	325.00	3.30	18.90	22.70	3.80	16.20	22.70	25.70	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 12:30 AM	320.00	2.70	18.10	22.50	4.40	16.20	22.50	25.90	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 12:45 AM	347.00	2.90	17.60	22.40	4.80	16.20	22.40	25.70	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 1:00 AM	150.00	0.70	14.80	13.70	0.00	16.20	14.80	18.90	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 1:15 AM	181.00	2.50	18.00	16.20	0.00	16.20	16.80	18.00	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 1:30 AM	87.00	0.70	16.20	15.60	0.00	16.20	14.30	15.60	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 1:45 AM	152.00	2.60	14.30	9.40	0.00	16.20	14.30	15.10	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 2:00 AM	156.00	3.70	12.50	8.20	0.00	16.20	12.50	15.00	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 2:15 AM	159.00	3.70	12.90	8.40	0.00	16.20	12.90	15.30	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 2:30 AM	174.00	3.60	14.60	9.70	0.00	16.20	14.60	17.30	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 2:45 AM	179.00	5.40	14.80	8.70	0.00	16.20	14.80	17.90	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 3:00 AM	202.00	4.10	19.20	16.20	0.00	16.20	15.60	19.20	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 3:15 AM	213.00	5.10	19.20	16.20	0.00	16.20	15.60	19.20	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 3:30 AM	212.00	4.90	19.20	16.20	0.00	16.20	17.10	19.20	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 3:45 AM	197.00	5.40	30.60	16.20	0.00	16.20	21.00	30.60	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 4:00 AM	212.00	3.40	29.70	16.20	0.00	16.20	26.30	29.70	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 4:15 AM	227.00	7.10	24.40	16.20	0.00	16.20	20.40	24.40	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 4:30 AM	214.00	4.00	19.30	16.20	0.00	16.20	13.30	19.30	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 4:45 AM	195.00	3.80	19.30	16.20	0.00	16.20	12.80	19.30	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 5:00 AM	188.00	4.20	17.40	16.20	0.00	16.20	12.60	17.40	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 5:15 AM	199.00	2.70	16.60	16.20	0.00	16.20	12.40	16.60	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 5:30 AM	197.00	4.30	16.60	16.20	0.00	16.20	12.50	16.60	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 5:45 AM	209.00	3.10	17.80	16.20	0.00	16.20	13.00	17.80	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 6:00 AM	211.00	2.10	17.20	16.20	0.00	16.20	13.10	17.20	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 6:15 AM	204.00	3.00	16.70	16.20	0.00	16.20	12.20	16.70	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 6:30 AM	219.00	2.40	16.40	16.20	0.00	16.20	12.30	16.40	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 6:45 AM	196.00	5.10	16.00	16.20	0.20	16.20	12.20	16.00	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 7:00 AM	210.00	2.80	15.50	16.20	0.70	16.20	11.90	15.50	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/14 7:15 AM	194.00	3.30	15.10	16.20	1.10	16.20	11.40	15.10								



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		
5/13/14 3:30 PM	297.00	6.40	11.40	2.70	0.00	16.20	2.70	3.30	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 3:45 PM	274.00	7.00	13.30	4.00	0.00	16.20	4.00	4.10	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 4:00 PM	275.00	6.50	13.70	4.00	0.00	16.20	4.00	4.10	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 4:15 PM	294.00	6.20	10.40	3.60	0.00	16.20	3.60	3.70	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 4:30 PM	288.00	4.20	8.20	3.10	0.00	16.20	3.10	3.30	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 4:45 PM	265.00	4.00	2.90	16.20	13.30	16.20	3.20	2.90	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 5:00 PM	275.00	3.20	6.70	2.90	0.00	16.20	2.90	1.90	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 5:15 PM	285.00	4.10	6.10	2.80	0.00	16.20	2.80	2.60	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 5:30 PM	297.00	6.30	6.30	3.30	0.00	16.20	3.30	3.60	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 5:45 PM	314.00	4.30	6.20	3.60	0.00	16.20	3.60	4.00	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 6:00 PM	297.00	4.90	6.10	5.40	0.00	16.20	5.40	6.30	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 6:15 PM	280.00	4.00	6.20	4.20	0.00	16.20	4.20	5.20	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 6:30 PM	284.00	3.70	9.40	3.70	0.00	16.20	3.70	5.00	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 6:45 PM	277.00	5.10	9.60	3.90	0.00	16.20	3.90	4.70	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 7:00 PM	312.00	5.20	9.40	3.60	0.00	16.20	3.60	4.60	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 7:15 PM	304.00	4.80	8.60	3.50	0.00	16.20	3.50	4.30	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 7:30 PM	280.00	3.70	5.10	4.10	0.00	16.20	4.10	5.20	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 7:45 PM	287.00	3.90	4.80	4.60	0.00	16.20	4.60	5.90	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 8:00 PM	309.00	4.30	4.60	4.50	0.00	16.20	4.50	6.30	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 8:15 PM	320.00	5.30	4.70	4.50	0.00	16.20	4.50	6.40	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 8:30 PM	317.00	4.70	4.40	4.60	0.20	16.20	4.60	5.80	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 8:45 PM	296.00	5.80	4.30	4.40	0.10	16.20	4.40	5.70	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 9:00 PM	296.00	3.40	5.10	4.60	0.00	16.20	4.60	5.90	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 9:15 PM	310.00	3.80	5.40	4.60	0.00	16.20	4.60	7.00	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 9:30 PM	277.00	2.50	5.90	4.90	0.00	16.20	4.90	7.50	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 9:45 PM	285.00	1.90	6.10	5.30	0.00	16.20	5.30	7.60	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 10:00 PM	276.00	3.00	6.50	5.20	0.00	16.20	5.20	7.60	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 10:15 PM	287.00	1.90	5.90	5.30	0.00	16.20	5.30	7.30	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 10:30 PM	282.00	2.80	6.20	5.50	0.00	16.20	5.50	7.30	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 10:45 PM	281.00	2.40	6.30	5.40	0.00	16.20	5.40	7.40	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 11:00 PM	298.00	2.40	6.20	5.40	0.00	16.20	5.40	7.60	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 11:15 PM	266.00	3.60	7.70	16.20	8.50	16.20	5.50	7.70	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 11:30 PM	288.00	3.20	6.20	5.70	0.00	16.20	5.70	8.30	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/14 11:45 PM	327.00	4.00	6.80	6.20	0.00	16.20	6.20	7.30	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 12:00 AM	323.00	2.90	6.60	6.30	0.00	16.20	6.30	7.60	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 12:15 AM	311.00	2.10	6.50	6.40	0.00	16.20	6.40	7.70	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 12:30 AM	337.00	2.80	6.40	6.50	0.10	16.20	6.50	7.90	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 12:45 AM	330.00	4.50	4.90	6.00	1.10	16.20	6.00	7.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 1:00 AM	315.00	3.10	4.70	5.70	1.00	16.20	5.70	5.20	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 1:15 AM	303.00	2.50	4.90	5.30	0.40	16.20	5.30	5.40	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 1:30 AM	296.00	3.70	5.00	5.30	0.30	16.20	5.30	5.30	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 1:45 AM	299.00	2.60	5.40	5.40	0.00	16.20	5.40	5.40	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 2:00 AM	294.00	2.30	6.00	5.20	0.00	16.20	5.20	5.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 2:15 AM	317.00	5.00	5.80	5.40	0.00	16.20	5.40	5.60	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 2:30 AM	310.00	2.80	5.60	5.20	0.00	16.20	5.20	5.40	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 2:45 AM	278.00	2.50	5.60	5.60	0.00	16.20	5.60	5.60	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 3:00 AM	319.00	2.70	5.40	5.60	0.20	16.20	5.60	5.50	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 3:15 AM	347.00	3.10	4.90	5.80	0.90	16.20	5.80	5.70	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 3:30 AM	334.00	3.90	4.80	5.20	0.40	16.20	5.20	5.70	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 3:45 AM	347.00	2.60	5.00	5.20	0.20	16.20	5.20	5.90	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 4:00 AM	4.00	4.00	16.20	5.70	0.00	16.20	5.40	5.70	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 4:15 AM	1.00	6.40	16.20	6.10	0.00	16.20	6.00	6.10	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 4:30 AM	6.00	5.80	16.20	5.90	0.00	16.20	5.60	5.90	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 4:45 AM	1.00	7.00	16.20	6.30	0.00	16.20	0.00	6.30	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 5:00 AM	352.00	4.20	5.50	5.80	0.30	16.20	5.80	5.80	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 5:15 AM	349.00	4.50	5.90	6.10	0.20	16.20	6.10	6.70	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 5:30 AM	338.00	4.30	6.40	6.80	0.40	16.20	6.80	6.00	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 5:45 AM	10.00	6.30	16.20	6.60	0.00	16.20	6.70	6.60	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 6:00 AM	0.00	6.80	16.20	6.30	0.00	16.20	6.40	6.30	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 6:15 AM	2.00	5.40	16.20	5.80	0.00	16.20	6.30	5.80	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 6:30 AM	352.00	4.20	9.40	6.20	0.00	16.20	6.20	5.80	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 6:45 AM	6.00	5.80	16.20	5.40	0.00	16.20	6.20	5.40	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 7:00 AM	356.00	4.60	8.10	5.70	0.00	16.20	5.70	4.90	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 7:15 AM	356.00	2.30	6.80	5.90	0.00	16.20	5.90	5.00	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 7:30 AM	10.00	5.80	16.20	4.90	0.00	16.20	5.90	4.90	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 7:45 AM	10.00	6.50	16.20	4.60	0.00	16.20	5.90	4.60	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 8:00 AM	5.00	6.60	16.20	4.30	0.00	16.20	5.70	4.30	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 8:15 AM	2.00	5.40	16.20	4.50	0.00	16.20	5.40	4.50	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 8:30 AM	1.00	6.40	16.20	4.10	0.00	16.20	6.10	4.10	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 8:45 AM	358.00	5.70	6.20	5.40	0.00	16.20	5.40	4.40	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/14/14 9:00 AM	6.00	5.60	16.20	4.40	0.00	16.20	5.10	4.40</										



US Army Corps of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
May 2014

Table with columns: Reading Time (EST), Wind Direction, Wind Speed, Particulates (µg/m³) [Upwind, Downwind, CDF Contribution, M1, M2, M3, M4], Naphthalene (µg/m³) [Upwind, Downwind, CDF Contribution, M1, M2, M3, M4]. Rows represent hourly data from 5/16/14 7:15 PM to 5/17/14 8:15 PM.



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Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
May 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
5/17/14 8:30 PM	230.00	1.50	7.10	8.80	1.70	8.80	6.20	7.10	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/14 8:45 PM	218.00	2.00	7.10	9.00	1.90	9.00	6.20	7.10	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/14 9:00 PM	223.00	1.80	7.10	9.00	1.90	9.00	6.20	7.10	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/14 9:30 PM	216.00	2.40	7.10	11.00	3.90	11.00	6.20	7.10	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/14 9:45 PM	206.00	2.50	7.10	11.80	4.70	11.80	6.20	7.10	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/14 10:00 PM	218.00	2.90	7.10	12.30	5.20	12.30	6.20	7.10	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/14 10:15 PM	224.00	3.00	7.10	12.30	5.20	12.30	6.20	7.10	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/14 10:30 PM	215.00	3.00	7.10	10.60	3.50	10.60	6.20	7.10	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/14 10:45 PM	227.00	2.40	7.10	10.40	3.30	10.40	6.20	7.10	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/14 11:00 PM	200.00	2.20	7.10	11.90	4.80	11.90	6.20	7.10	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/14 11:15 PM	211.00	3.40	7.10	14.60	7.50	14.60	6.20	7.10	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/14 11:30 PM	206.00	2.80	7.10	15.20	8.10	15.20	6.20	7.10	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/14 11:45 PM	212.00	2.60	7.10	17.00	9.90	17.00	6.20	7.10	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 12:00 AM	228.00	2.80	7.10	17.90	10.80	17.90	6.20	7.10	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 12:15 AM	217.00	2.90	7.10	17.40	10.30	17.40	6.20	7.10	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 12:30 AM	221.00	2.70	7.10	14.70	7.60	14.70	6.20	7.10	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 12:45 AM	219.00	2.20	7.10	15.00	7.90	15.00	6.20	7.10	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 1:00 AM	209.00	2.90	7.10	15.00	7.90	15.00	6.20	7.10	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 1:15 AM	210.00	2.60	7.10	15.60	8.50	15.60	6.20	7.10	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 1:30 AM	219.00	2.10	7.10	15.60	8.50	15.60	6.20	7.10	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 1:45 AM	213.00	1.90	7.10	16.10	9.00	16.10	6.20	7.10	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 2:00 AM	211.00	1.90	7.10	17.10	10.00	17.10	6.20	7.10	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 2:15 AM	222.00	1.80	7.10	17.10	10.00	17.10	6.20	7.10	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 2:30 AM	216.00	2.00	7.10	15.50	8.40	15.50	6.20	7.10	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 2:45 AM	214.00	2.00	7.10	15.50	8.40	15.50	6.20	7.10	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 3:00 AM	215.00	1.80	7.10	15.20	8.10	15.20	6.20	7.10	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 3:15 AM	202.00	2.00	7.10	15.00	7.90	15.00	6.20	7.10	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 3:30 AM	205.00	2.30	7.10	14.80	7.70	14.80	6.20	7.10	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 3:45 AM	218.00	1.70	7.10	112.70	105.60	112.70	6.20	7.10	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 4:00 AM	207.00	1.60	7.10	12929.40	12922.30	12929.40	6.20	7.10	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 4:15 AM	226.00	1.80	7.10	14393.70	14386.60	14393.70	6.20	7.10	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 4:30 AM	205.00	2.00	7.10	14393.10	14386.00	14393.10	6.20	7.10	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 4:45 AM	222.00	2.10	7.10	14393.00	14385.90	14393.00	6.20	7.10	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 5:00 AM	233.00	2.40	7.10	14393.30	14386.20	14393.30	6.20	7.10	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 5:15 AM	206.00	2.70	7.10	14400.90	14393.80	14400.90	6.20	7.10	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 5:30 AM	207.00	2.40	7.10	14400.90	14393.80	14400.90	6.20	7.10	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 5:45 AM	201.00	2.10	7.10	14401.10	14394.00	14401.10	6.20	7.10	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 6:00 AM	206.00	2.70	7.10	14401.00	14393.90	14401.00	6.20	7.10	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 6:15 AM	235.00	2.40	7.10	14400.70	14393.60	14400.70	6.20	7.10	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 6:30 AM	214.00	2.40	7.10	14400.80	14393.70	14400.80	6.20	7.10	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 6:45 AM	211.00	3.50	7.10	14393.80	14386.70	14393.80	6.20	7.10	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 7:00 AM	216.00	3.90	7.10	14393.60	14386.50	14393.60	6.20	7.10	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 7:15 AM	235.00	3.00	7.10	14394.20	14387.10	14394.20	6.20	7.10	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 7:30 AM	258.00	3.70	7.10	14393.90	14386.80	14393.90	6.20	7.10	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 7:45 AM	253.00	3.50	7.10	14393.60	14386.50	14393.60	6.20	7.10	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 8:00 AM	241.00	4.00	7.10	14393.60	14386.50	14393.60	6.20	7.10	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 8:15 AM	230.00	4.60	7.10	14392.80	14385.70	14392.80	6.20	7.10	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 8:30 AM	229.00	4.90	7.10	14393.30	14386.20	14393.30	6.20	7.10	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 8:45 AM	234.00	4.80	7.10	14393.10	14386.00	14393.10	6.20	7.10	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 9:00 AM	216.00	3.40	7.10	14392.50	14385.40	14392.50	6.20	7.10	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 9:15 AM	212.00	3.60	7.10	14393.10	14386.00	14393.10	6.20	7.10	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 9:30 AM	237.00	5.80	7.10	14392.50	14385.40	14392.50	6.20	7.10	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 9:45 AM	258.00	6.20	7.10	14392.60	14385.50	14392.60	6.20	7.10	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 10:00 AM	226.00	4.00	7.10	14392.70	14385.60	14392.70	6.20	7.10	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 10:15 AM	243.00	5.20	7.10	14392.30	14385.20	14392.30	6.20	7.10	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 10:30 AM	238.00	4.80	7.10	14393.00	14385.90	14393.00	6.20	7.10	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 10:45 AM	214.00	4.40	7.10	13778.20	13771.10	13778.20	6.20	7.10	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 11:00 AM	254.00	4.70	7.10	14393.20	14386.10	14393.20	6.20	7.10	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 11:15 AM	224.00	5.10	7.10	14392.30	14385.20	14392.30	6.20	7.10	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 11:30 AM	259.00	7.00	7.10	14392.60	14385.50	14392.60	6.20	7.10	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 11:45 AM	252.00	3.70	7.10	14392.40	14385.30	14392.40	6.20	7.10	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 12:00 PM	256.00	6.20	7.10	14392.30	14385.20	14392.30	6.20	7.10	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 12:15 PM	219.00	3.70	7.10	14392.50	14385.40	14392.50	6.20	7.10	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 12:30 PM	258.00	5.20	7.10	14392.20	14385.10	14392.20	6.20	7.10	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 12:45 PM	217.00	3.20	7.10	14392.00	14384.90	14392.00	6.20	7.10	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 1:00 PM	259.00	6.10	7.10	14391.90	14384.80	14391.90	6.20	7.10	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 1:15 PM	238.00	2.40	7.10	14391.50	14384.40	14391.50	6.20	7.10	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/14 1:30 PM	197.00	4.30	7.10	14391.90	14384.80											



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
5/18/14 10:00 PM	200.0	2.40	7.10	14392.70	14385.60	14392.70	12.20	7.10	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/18/14 10:15 PM	215.00	3.90	7.10	14392.10	14385.00	14392.10	12.90	7.10	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/18/14 10:30 PM	187.00	2.70	7.10	10891.90	10884.80	10891.90	12.40	7.10	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/18/14 10:45 PM	204.00	3.00	7.10	9787.90	9780.80	9787.90	12.10	7.10	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/18/14 11:00 PM	188.00	2.70	7.10	9687.50	9680.40	9687.50	12.10	7.10	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/18/14 11:15 PM	192.00	2.50	7.10	9428.50	9421.40	9428.50	11.80	7.10	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/18/14 11:30 PM	191.00	2.60	7.10	8533.20	8526.10	8533.20	12.10	7.10	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/18/14 11:45 PM	177.00	2.30	12.70	9.60	0.00	8490.90	12.70	7.10	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 12:00 AM	198.00	2.60	7.10	8547.60	8540.50	8547.60	13.60	7.10	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 12:15 AM	191.00	2.30	7.10	8577.20	8570.10	8577.20	13.30	7.10	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 12:30 AM	178.00	2.60	12.50	10.00	0.00	8945.80	12.50	7.10	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 12:45 AM	192.00	3.10	7.10	8963.20	8956.10	8963.20	13.00	7.10	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 1:00 AM	195.00	2.60	7.10	8934.60	8927.50	8934.60	13.10	7.10	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 1:15 AM	189.00	2.60	7.10	8869.90	8862.80	8869.90	13.50	7.10	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 1:30 AM	191.00	3.10	7.10	10270.30	10263.20	10270.30	13.40	7.10	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 1:45 AM	195.00	2.30	7.10	10102.00	10094.90	10102.00	13.40	7.10	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 2:00 AM	212.00	3.30	7.10	10069.90	10062.80	10069.90	13.30	7.10	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 2:15 AM	192.00	2.00	7.10	10101.40	10094.30	10101.40	13.70	7.10	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 2:30 AM	185.00	2.10	7.10	10898.90	10891.80	10898.90	13.50	7.10	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 2:45 AM	178.00	1.90	13.80	20.90	7.10	13572.40	13.80	7.10	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 3:00 AM	180.00	3.00	7.10	13628.30	13621.20	13628.30	14.50	7.10	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 3:15 AM	182.00	2.50	7.10	13622.80	13615.70	13622.80	15.30	7.10	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 3:30 AM	207.00	2.30	7.10	13618.10	13611.00	13618.10	16.30	7.10	27.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 3:45 AM	209.00	3.20	7.10	13370.20	13363.10	13370.20	13.80	7.10	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 4:00 AM	200.00	2.30	7.10	13463.50	13456.40	13463.50	13.90	7.10	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 4:15 AM	205.00	2.80	7.10	13479.40	13472.30	13479.40	15.10	7.10	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 4:30 AM	214.00	2.00	7.10	13467.50	13460.40	13467.50	14.60	7.10	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 4:45 AM	198.00	2.70	7.10	13485.30	13478.20	13485.30	15.70	7.10	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 5:00 AM	177.00	2.60	14.80	19.50	4.70	13484.60	14.80	7.10	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 5:15 AM	191.00	2.30	7.10	13816.30	13809.20	13816.30	20.20	7.10	24.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 5:30 AM	177.00	2.40	18.20	25.20	7.00	14041.00	18.20	7.10	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 5:45 AM	197.00	2.20	7.10	14048.90	14041.80	14048.90	20.20	7.10	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 6:00 AM	199.00	1.80	7.10	14069.60	14062.50	14069.60	22.60	7.10	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 6:15 AM	197.00	2.40	7.10	14020.80	14013.70	14020.80	25.10	7.10	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 6:30 AM	186.00	3.20	7.10	13985.60	13978.50	13985.60	18.90	7.10	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 6:45 AM	206.00	2.20	7.10	13933.00	13925.90	13933.00	18.90	7.10	29.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 7:00 AM	191.00	2.70	7.10	14035.90	14028.80	14035.90	19.60	7.10	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 7:15 AM	178.00	3.60	20.60	21.30	0.70	13670.20	20.60	7.10	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 7:30 AM	183.00	3.00	7.10	13570.10	13563.00	13570.10	20.80	7.10	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 7:45 AM	204.00	2.60	7.10	13531.70	13524.60	13531.70	20.80	7.10	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 8:00 AM	206.00	3.00	7.10	13167.00	13159.90	13167.00	24.40	7.10	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 8:15 AM	186.00	5.70	7.10	12868.20	12861.10	12868.20	19.80	7.10	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 8:30 AM	172.00	4.00	17.70	15.40	0.00	12737.20	17.70	7.10	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 8:45 AM	182.00	4.30	7.10	12637.50	12630.40	12637.50	17.10	7.10	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 9:00 AM	189.00	3.80	7.10	12584.10	12577.00	12584.10	15.20	7.10	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 9:15 AM	202.00	2.40	7.10	9523.90	9516.80	9523.90	22.00	7.10	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 9:30 AM	173.00	5.10	16.30	14.70	0.00	12662.00	16.30	7.10	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 9:45 AM	211.00	6.20	7.10	12815.30	12808.20	12815.30	16.30	7.10	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 10:00 AM	203.00	5.50	7.10	12911.00	12903.90	12911.00	16.80	7.10	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 10:15 AM	196.00	7.10	7.10	12787.50	12780.40	12787.50	16.50	7.10	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 10:30 AM	197.00	5.40	7.10	12787.50	12780.40	12787.50	16.50	7.10	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 10:45 AM	187.00	5.00	7.10	12126.40	12119.30	12126.40	15.20	7.10	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 11:00 AM	188.00	8.50	7.10	12126.40	12119.30	12126.40	15.40	7.10	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 11:15 AM	189.00	8.40	7.10	-7.40	0.00	-7.40	15.60	7.10	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 11:30 AM	217.00	4.70	16.00	6.30	0.00	6.30	16.30	16.00	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 11:45 AM	183.00	7.00	12.60	6.90	0.00	6.90	15.30	12.60	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 12:00 PM	215.00	9.00	13.70	12.30	0.00	12.30	15.80	13.70	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 12:15 PM	170.00	7.10	16.80	14.90	0.00	14.30	16.80	11.50	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 12:30 PM	173.00	6.50	17.80	15.10	0.00	10.10	17.80	12.10	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 12:45 PM	173.00	10.60	18.60	15.10	0.00	17.30	18.60	12.60	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 1:00 PM	183.00	7.30	12.30	0.00	0.00	0.00	18.70	12.30	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 1:15 PM	182.00	4.70	12.90	10.00	0.00	10.00	18.70	12.90	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 1:30 PM	176.00	5.80	27.90	15.60	0.00	15.00	27.90	12.70	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 1:45 PM	186.00	6.70	12.70	19.30	6.60	19.30	17.90	12.70	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 2:00 PM	168.00	8.30	20.40	15.80	0.00	18.30	20.40	11.00	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 2:15 PM	176.00	6.50	19.40	15.50	0.00	13.80	19.40	13.30	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/19/14 2:30 PM	201.00	5.70	14.70	22.40	7.70	22.40	37											



**US Army Corps
of Engineers®**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
May 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
5/19/14 11:15 PM	181.00	4.50	21.80	24.70	2.90	24.70	24.50	21.80	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/19/14 11:30 PM	167.00	6.90	24.60	15.70	0.00	25.40	24.60	21.50	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/19/14 11:45 PM	180.00	5.80	18.60	22.20	3.60	22.20	24.60	18.60	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 12:00 AM	156.00	6.60	23.70	14.70	0.00	22.00	23.70	17.60	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 12:15 AM	168.00	6.60	25.50	14.90	0.00	17.10	25.50	18.20	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 12:30 AM	176.00	6.20	25.30	15.80	0.00	0.00	25.30	18.30	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 12:45 AM	178.00	5.50	26.10	16.60	0.00	20.80	26.10	21.30	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 1:00 AM	168.00	8.70	25.80	16.20	0.00	23.40	25.80	19.60	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 1:15 AM	162.00	7.50	25.40	15.70	0.00	18.30	25.40	41.10	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 1:30 AM	163.00	5.40	25.30	16.50	0.00	17.30	25.30	20.10	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 1:45 AM	181.00	7.30	20.70	21.30	0.60	21.30	27.40	20.70	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 2:00 AM	190.00	5.00	20.50	17.20	0.00	17.20	26.40	20.50	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 2:15 AM	191.00	5.60	20.20	19.60	0.00	19.60	24.60	20.20	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 2:30 AM	204.00	4.80	20.50	24.30	3.80	24.30	24.30	20.50	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 2:45 AM	211.00	5.50	20.20	26.00	5.80	26.00	24.40	20.20	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 3:00 AM	186.00	5.90	21.70	0.00	0.00	0.00	24.40	21.70	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 3:15 AM	193.00	4.60	24.30	16.80	0.00	16.80	25.20	24.30	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 3:30 AM	185.00	3.90	26.20	22.90	0.00	22.90	24.10	26.20	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 3:45 AM	198.00	6.30	25.90	15.90	0.00	15.90	24.60	25.90	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 4:00 AM	172.00	7.50	24.80	16.40	0.00	21.90	24.80	24.10	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 4:15 AM	204.00	4.10	24.20	17.20	0.00	17.20	26.00	24.20	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 4:30 AM	237.00	5.50	24.40	19.90	0.00	19.90	26.80	24.40	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 4:45 AM	194.00	4.40	25.30	19.20	0.00	19.20	27.00	25.30	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 5:00 AM	193.00	5.40	25.00	19.00	0.00	19.00	31.60	25.00	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 5:15 AM	196.00	6.40	25.60	19.90	0.00	19.90	26.60	25.60	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 5:30 AM	192.00	6.00	26.10	20.60	0.00	20.60	27.60	26.10	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 5:45 AM	207.00	4.60	25.40	21.30	0.00	21.30	28.00	25.40	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 6:00 AM	201.00	4.60	26.30	21.80	0.00	21.80	29.10	26.30	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 6:15 AM	192.00	4.40	26.10	18.70	0.00	18.70	28.10	26.10	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 6:30 AM	213.00	5.50	27.20	18.20	0.00	18.20	28.40	27.20	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 6:45 AM	203.00	4.90	27.70	13.40	0.00	13.40	28.10	27.70	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 7:00 AM	216.00	5.90	27.80	20.50	0.00	20.50	28.10	27.80	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 7:15 AM	197.00	6.00	30.60	15.90	0.00	15.90	29.10	30.60	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 7:30 AM	209.00	4.70	30.00	16.20	0.00	16.20	28.40	30.00	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 7:45 AM	231.00	6.50	30.40	16.40	0.00	16.40	28.00	30.40	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 8:00 AM	207.00	6.50	32.50	13.80	0.00	13.80	28.50	32.50	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 8:15 AM	232.00	6.20	33.70	13.30	0.00	13.30	28.10	33.70	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 8:30 AM	234.00	7.00	33.30	12.10	0.00	12.10	28.20	33.30	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 8:45 AM	224.00	3.30	33.20	18.30	0.00	18.30	28.20	33.20	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 9:00 AM	220.00	3.50	33.10	20.30	0.00	20.30	29.10	33.10	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 9:15 AM	228.00	6.90	33.60	22.20	0.00	22.20	48.00	33.60	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 9:30 AM	212.00	3.50	33.60	22.70	0.00	22.70	27.50	33.60	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 9:45 AM	228.00	4.40	33.90	14.70	0.00	14.70	28.20	33.90	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 10:00 AM	233.00	4.40	32.60	15.00	0.00	15.00	26.60	32.60	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 10:15 AM	233.00	5.10	32.70	15.80	0.00	15.80	28.10	32.70	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 10:30 AM	242.00	4.60	31.80	19.40	0.00	19.40	26.80	31.80	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 10:45 AM	251.00	5.70	30.30	18.30	0.00	18.30	27.00	30.30	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 11:00 AM	216.00	6.30	28.20	17.00	0.00	17.00	26.30	28.20	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 11:15 AM	258.00	6.90	28.70	23.40	0.00	23.40	25.00	28.70	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 11:30 AM	222.00	4.60	27.20	22.60	0.00	22.60	25.40	27.20	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 11:45 AM	259.00	5.00	27.20	22.60	0.00	22.60	25.40	27.20	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 12:00 PM	223.00	5.10	27.10	21.70	0.00	21.70	25.10	27.10	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 12:15 PM	0.00	0.00	0.00	0.00	0.00	0.00	24.30	25.10	26.80	19.10	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 12:30 PM	219.00	4.80	27.00	24.40	0.00	24.40	24.90	27.00	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 12:45 PM	231.00	5.40	27.60	23.60	0.00	23.60	24.90	27.60	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 1:00 PM	266.00	4.80	27.00	23.70	0.00	23.70	30.70	27.00	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 1:15 PM	219.00	5.40	27.60	19.80	0.00	19.80	31.10	27.60	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 1:30 PM	260.00	4.80	26.50	24.30	0.00	24.30	25.20	26.50	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 1:45 PM	216.00	3.30	26.30	23.60	0.00	23.60	25.40	26.30	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 2:00 PM	246.00	6.10	25.70	5588.00	5562.30	5588.00	30.10	25.70	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 2:15 PM	203.00	4.10	25.90	5587.70	5561.80	5587.70	25.90	25.90	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 2:30 PM	205.00	6.00	27.70	5587.60	5559.90	5587.60	27.40	27.70	27.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 2:45 PM	212.00	5.00	26.20	5588.10	5561.90	5588.10	26.70	26.20	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 3:00 PM	235.00	6.50	26.30	5588.00	5561.70	5588.00	25.80	26.30	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 3:15 PM	198.00	4.40	26.30	5587.80	5561.50	5587.80	25.20	26.30	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 3:30 PM	207.00	7.20	27.10	5587.80	5560.70	5587.80	27.10	27.10	32.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 3:45 PM	214.00	5.00	27.70	5588.10	5560.40	5588.10	26.30	27.70	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/14 4:00 PM	215.00	4.90	29.00	5588.00	5559.00	5588.00	26.00	29.00	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/2																



US Army Corps
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Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
May 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
5/21/14 12:30 AM	144.00	2.40	42.30	31.60	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 12:45 AM	123.00	2.70	42.30	31.60	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 1:00 AM	191.00	1.80	48.70	3951.50	3902.80	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 1:15 AM	186.00	2.30	48.70	3951.50	3902.80	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 1:30 AM	178.00	3.20	42.30	31.60	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 1:45 AM	202.00	2.10	48.70	3951.50	3902.80	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 2:00 AM	151.00	1.00	42.30	31.60	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 2:15 AM	79.00	3.80	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 2:30 AM	146.00	2.80	42.30	31.60	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 2:45 AM	159.00	2.70	42.30	31.60	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 3:00 AM	175.00	2.70	42.30	31.60	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 3:15 AM	194.00	1.50	48.70	3951.50	3902.80	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 3:30 AM	207.00	1.50	48.70	3951.50	3902.80	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 3:45 AM	213.00	1.30	48.70	3951.50	3902.80	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 4:00 AM	248.00	1.50	48.70	3951.50	3902.80	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 4:15 AM	19.00	2.70	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 4:30 AM	286.00	1.10	31.60	42.30	10.70	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 4:45 AM	262.00	0.90	48.70	3951.50	3902.80	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 5:00 AM	170.00	2.00	42.30	31.60	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 5:15 AM	205.00	2.50	48.70	3951.50	3902.80	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 5:30 AM	248.00	2.80	48.70	3951.50	3902.80	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 5:45 AM	256.00	4.00	48.70	3951.50	3902.80	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 6:00 AM	318.00	0.60	31.60	42.30	10.70	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 6:15 AM	202.00	2.40	48.70	3951.50	3902.80	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 6:30 AM	201.00	1.70	48.70	3951.50	3902.80	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 6:45 AM	215.00	3.10	48.70	3951.50	3902.80	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 7:00 AM	212.00	5.20	48.70	3951.50	3902.80	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 7:15 AM	235.00	3.00	48.70	3951.50	3902.80	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 7:30 AM	330.00	1.90	31.60	42.30	10.70	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 7:45 AM	15.00	6.20	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 8:00 AM	4.00	7.10	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 8:15 AM	3.00	3.90	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 8:30 AM	359.00	2.60	31.60	42.30	10.70	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 8:45 AM	8.00	4.40	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 9:00 AM	35.00	3.80	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 9:15 AM	354.00	2.00	31.60	42.30	10.70	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 9:30 AM	6.00	3.10	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 9:45 AM	42.00	2.90	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 10:00 AM	22.00	2.20	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 10:15 AM	50.00	2.40	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 10:30 AM	16.00	1.40	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 10:45 AM	13.00	1.40	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 11:00 AM	45.00	1.70	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 11:15 AM	349.00	1.40	31.60	42.30	10.70	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 11:30 AM	44.00	1.60	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 11:45 AM	19.00	3.30	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 12:00 PM	23.00	1.70	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 12:15 PM	12.00	1.80	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 12:30 PM	43.00	2.70	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 12:45 PM	351.00	2.40	31.60	42.30	10.70	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 1:00 PM	23.00	1.40	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 1:15 PM	57.00	1.00	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 1:30 PM	85.00	1.40	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 1:45 PM	79.00	2.20	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 2:00 PM	50.00	2.10	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 2:15 PM	83.00	2.20	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 2:30 PM	85.00	2.10	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 2:45 PM	150.00	3.40	42.30	31.60	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 3:00 PM	120.00	3.00	42.30	31.60	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 3:15 PM	135.00	3.80	42.30	31.60	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 3:30 PM	133.00	3.50	42.30	31.60	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 3:45 PM	112.00	2.40	42.30	31.60	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 4:00 PM	89.00	3.20	3951.50	48.70	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 4:15 PM	101.00	2.00	42.30	31.60	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 4:30 PM	106.00	2.80	42.30	31.60	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 4:45 PM	122.00	3.30	42.30	31.60	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/21/14 5:00 PM	92.00	2.70	42.30	31.60	0.00	3951.50	42.30	48.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		



US Army Corps of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
May 2014

Table with columns: Reading Time (EST), Wind Direction, Wind Speed, Particulates (µg/m³), and Naphthalene (µg/m³). The table contains 100 rows of monitoring data.



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Indiana Harbor and Canal
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May 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
5/23/14 3:30 AM	77.00	1.80	39.60	19.80	0.00	39.60	40.00	19.80	27.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 3:45 AM	13.00	1.50	69.50	26.70	0.00	69.50	58.50	26.70	45.20	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 4:00 AM	216.00	0.80	31.20	61.40	30.20	61.40	74.00	31.20	35.50	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 4:15 AM	57.00	1.80	21.30	24.80	3.50	21.30	50.70	24.80	17.30	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 4:30 AM	153.00	1.30	38.20	16.60	0.00	15.20	38.20	18.00	16.60	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 4:45 AM	269.00	0.20	17.30	0.00	0.00	0.00	32.40	17.30	10.90	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 5:00 AM	60.00	1.40	5.80	10.80	5.00	5.80	35.80	10.80	11.40	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 5:15 AM	88.00	2.50	18.50	11.40	0.00	18.50	32.20	11.40	9.90	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 5:30 AM	82.00	3.70	57.00	16.90	0.00	57.00	24.70	16.90	11.70	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 5:45 AM	94.00	2.50	64.50	13.10	0.00	101.80	64.50	27.20	13.10	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 6:00 AM	92.00	2.00	46.40	26.40	0.00	62.20	46.40	22.90	26.40	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 6:15 AM	217.00	0.60	14.40	0.00	0.00	0.00	15.00	14.40	25.30	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 6:30 AM	187.00	0.50	20.40	74.80	54.40	74.80	38.90	20.40	25.20	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 6:45 AM	172.00	1.20	46.10	49.50	3.40	116.60	46.10	19.80	49.50	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 7:00 AM	81.00	2.20	117.50	20.10	0.00	117.50	88.50	20.10	61.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 7:15 AM	102.00	2.20	55.80	57.90	2.10	84.70	55.80	23.50	57.90	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 7:30 AM	92.00	2.10	46.80	31.70	0.00	84.90	46.80	22.50	31.70	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 7:45 AM	137.00	2.00	54.60	48.60	0.00	60.70	54.60	23.10	48.60	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 8:00 AM	90.00	1.80	64.50	22.70	0.00	29.10	64.50	15.20	22.70	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 8:15 AM	58.00	2.80	56.70	29.40	0.00	56.70	77.00	29.40	33.80	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 8:30 AM	42.00	3.40	95.50	25.50	0.00	95.50	64.20	25.50	46.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 8:45 AM	36.00	2.80	93.40	27.70	0.00	93.40	65.60	27.70	54.70	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 9:00 AM	59.00	4.10	41.20	23.20	0.00	41.20	83.70	23.20	18.70	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 9:15 AM	50.00	4.30	42.50	15.90	0.00	42.50	45.90	15.90	5.50	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 9:30 AM	47.00	4.20	0.00	12.90	0.00	0.00	30.80	12.90	13.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 9:45 AM	57.00	5.10	18.40	8.10	0.00	18.40	24.60	8.10	3.50	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 10:00 AM	49.00	5.10	8.40	4.00	0.00	8.40	24.50	4.00	7.70	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 10:15 AM	56.00	5.90	3.50	2.10	0.00	3.50	16.60	2.10	7.10	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 10:30 AM	49.00	5.50	-0.50	2.80	3.30	-0.50	14.00	2.80	9.50	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 10:45 AM	48.00	5.50	0.20	1.90	1.70	0.20	13.90	1.90	7.80	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 11:00 AM	26.00	5.70	-0.80	7.60	8.40	-0.80	8.40	7.60	9.60	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 11:15 AM	36.00	4.40	1.90	6.30	4.40	1.90	5.60	6.30	9.20	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 11:30 AM	29.00	4.90	5.00	3.50	0.00	5.00	15.40	3.50	9.10	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 11:45 AM	36.00	3.90	4.80	4.80	0.00	4.80	32.00	4.80	8.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 12:00 PM	73.00	3.00	5.50	2.60	0.00	5.50	0.00	2.60	8.80	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 12:15 PM	35.00	3.70	1.40	4.40	3.00	1.40	16.30	4.40	11.30	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 12:30 PM	55.00	5.30	10.90	3.90	0.00	10.90	15.60	3.90	30.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 12:45 PM	47.00	3.80	3.80	3.10	0.00	3.80	13.70	3.10	11.60	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 1:00 PM	56.00	5.00	1.50	2.80	1.30	1.50	17.30	2.80	8.60	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 1:15 PM	54.00	5.80	12.00	3.50	0.00	12.00	29.60	3.50	14.70	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 1:30 PM	54.00	3.80	13.20	4.00	0.00	13.20	18.10	4.00	9.30	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 1:45 PM	35.00	4.80	13.60	8.30	0.00	13.60	22.00	8.30	9.30	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 2:00 PM	43.00	4.60	8.40	5.40	0.00	8.40	35.90	5.40	14.80	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 2:15 PM	39.00	7.00	14.00	7.70	0.00	14.00	26.10	7.70	10.60	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 2:30 PM	35.00	4.90	14.90	4.40	0.00	14.90	20.20	4.40	10.20	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 2:45 PM	56.00	3.40	11.30	4.80	0.00	11.30	20.20	4.80	5.30	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 3:00 PM	64.00	4.40	10.20	1.30	0.00	10.20	8.90	1.30	11.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 3:15 PM	65.00	3.80	8.70	2.00	0.00	8.70	9.60	2.00	9.80	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 3:30 PM	73.00	3.00	5.30	3.30	0.00	5.30	8.60	3.30	8.50	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 3:45 PM	85.00	4.90	10.90	2.80	0.00	10.90	8.50	2.80	12.50	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 4:00 PM	35.00	5.10	16.10	2.90	0.00	16.10	8.90	2.90	12.70	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 4:15 PM	47.00	5.50	15.70	2.20	0.00	15.70	10.80	2.20	10.50	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 4:30 PM	47.00	6.00	5.90	3.10	0.00	5.90	15.60	3.10	16.50	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 4:45 PM	48.00	5.50	3.20	1.40	0.00	3.20	5.70	1.40	9.60	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 5:00 PM	46.00	6.20	15.50	2.00	0.00	15.50	17.50	2.00	14.80	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 5:15 PM	32.00	5.80	8.60	3.20	0.00	8.60	20.30	3.20	8.60	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 5:30 PM	38.00	4.30	11.70	5.90	0.00	11.70	18.30	5.90	16.20	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 5:45 PM	34.00	5.90	3.80	4.60	0.80	3.80	14.80	4.60	7.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 6:00 PM	40.00	6.20	17.90	3.00	0.00	17.90	23.30	3.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 6:15 PM	42.00	4.80	9.70	4.40	0.00	9.70	12.60	4.40	6.40	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 6:30 PM	49.00	4.90	4.90	2.10	0.00	4.90	6.80	2.10	4.90	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 6:45 PM	47.00	3.00	-0.90	2.50	3.40	-0.90	5.10	2.50	7.10	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 7:00 PM	64.00	3.90	1.60	0.80	0.00	1.60	9.30	0.80	4.50	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 7:15 PM	40.00	5.70	0.20	1.50	1.30	0.20	7.70	1.50	6.20	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 7:30 PM	41.00	4.60	11.20	2.10	0.00	11.20	9.20	2.10	10.70	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 7:45 PM	47.00	4.20	0.90	2.80	1.90	0.90	21.80	2.80	11.40	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 8:00 PM	46.00	3.60	0.00	0.80	0.00	0.00	10.20	0.80	5.30	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 8:15 PM	44.00	4.70	-1.60	0.90	2.50	-1.60	9.10	0.90	19.40	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 8:30 PM	39.00	4.40	0.00	1.50	1.50	0.00	9.30	1.50	5.40	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 8:45 PM	49.00	3.30	2.10	1.90	0.00	2.10	14.40	1.90	4.60	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 9:00 PM	45.00	3.80	3.80	2.30	0.00	3.80	11.90	2.30	9.90	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 9:15 PM	47.00	5.50	7.30	3.30	0.00	7.30	22.50	3.30	9.20	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 9:30 PM	58.00	4.10	3.50	2.90	0.00	3.50	28.50	2.90	4.30	0.00	0.00	0.00	0.00	0.00	0.00	
5/23/14 9:45 PM	53.00	2.90	0.80	1.80	1.00	0.80	16.10	1.80	13.00	0.00	0.00	0.00				



US Army Corps of Engineers

Indiana Harbor and Canal Confined Disposal Facility Real-Time Air Monitoring Data May 2014

Table with columns: Reading Time (EST), Wind Direction, Wind Speed, Particulates (ug/m³) [Upwind, Downwind, CDF Contribution, M1, M2, M3, M4], Naphthalene (ug/m³) [Upwind, Downwind, CDF Contribution, M1, M2, M3, M4]. Rows represent hourly data from 5/25/14 6:00 AM to 5/26/14 7:00 AM.



US Army Corps of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
May 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
5/26/14 7:15 AM	214.00	2.30	7.30	24.10	16.80	24.10	27.10	7.30	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 7:30 AM	209.00	3.50	7.30	22.80	15.50	22.80	24.60	7.30	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 7:45 AM	197.00	4.70	7.30	20.80	13.50	20.80	24.50	7.30	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 8:00 AM	208.00	3.80	7.30	20.00	12.70	20.00	21.80	7.30	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 8:15 AM	196.00	3.40	7.30	14.30	7.00	14.30	19.30	7.30	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 8:30 AM	210.00	4.50	7.30	13.70	6.40	13.70	19.30	7.30	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 8:45 AM	216.00	4.50	7.30	12.80	5.50	12.80	17.90	7.30	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 9:00 AM	229.00	2.40	7.30	13.80	6.50	13.80	17.70	7.30	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 9:15 AM	196.00	2.30	7.30	19.50	12.20	19.50	18.00	7.30	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 9:30 AM	208.00	4.10	7.30	19.20	11.90	19.20	19.90	7.30	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 9:45 AM	284.00	1.20	18.50	21.10	2.60	22.90	21.10	7.30	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 10:00 AM	275.00	2.00	19.60	22.00	2.40	25.80	22.00	7.30	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 10:15 AM	188.00	1.20	7.30	26.00	18.70	26.00	25.60	7.30	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 10:30 AM	268.00	3.40	7.30	27.60	20.30	27.60	25.10	7.30	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 10:45 AM	241.00	5.50	7.30	23.70	16.40	23.70	25.60	7.30	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 11:00 AM	241.00	2.80	7.30	27.70	20.40	27.70	26.60	7.30	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 11:15 AM	236.00	2.00	7.30	29.20	21.90	29.20	27.30	7.30	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 11:30 AM	187.00	3.90	7.30	31.20	23.90	31.20	28.60	7.30	29.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 11:45 AM	227.00	2.70	7.30	32.00	24.70	32.00	30.20	7.30	30.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 12:00 PM	257.00	3.80	7.30	35.20	27.90	35.20	32.60	7.30	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 12:15 PM	278.00	5.20	28.20	31.40	3.20	36.60	31.40	7.30	28.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 12:30 PM	207.00	3.50	7.30	36.70	29.40	36.70	31.30	7.30	29.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 12:45 PM	220.00	4.50	7.30	41.70	34.40	41.70	32.50	7.30	29.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 1:00 PM	266.00	4.20	7.30	39.90	32.60	39.90	32.50	7.30	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 1:15 PM	228.00	3.40	7.30	43.10	35.80	43.10	32.90	7.30	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 1:30 PM	252.00	3.10	7.30	37.70	30.40	37.70	31.90	7.30	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 1:45 PM	328.00	2.10	28.60	31.30	2.70	35.30	31.30	7.30	28.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 2:00 PM	243.00	1.50	7.30	34.10	26.80	34.10	29.20	7.30	25.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 2:15 PM	286.00	3.60	26.80	28.80	2.00	34.40	28.80	7.30	26.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 2:30 PM	273.00	4.40	26.80	28.90	2.10	37.20	28.90	7.30	26.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 2:45 PM	304.00	4.60	27.50	28.70	1.20	40.90	28.70	7.30	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 3:00 PM	276.00	2.60	28.00	28.30	0.30	35.70	28.30	7.30	28.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 3:15 PM	227.00	0.50	7.30	37.10	29.80	37.10	29.10	7.30	29.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 3:30 PM	178.00	3.50	29.00	28.40	0.00	34.90	29.00	7.30	28.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 3:45 PM	229.00	4.30	7.30	38.80	31.50	38.80	28.50	7.30	28.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 4:00 PM	223.00	2.40	7.30	37.50	30.20	37.50	27.10	7.30	29.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 4:15 PM	143.00	2.70	26.50	27.70	1.20	34.50	26.50	7.30	27.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 4:30 PM	86.00	1.50	33.70	7.30	0.00	33.70	25.60	7.30	28.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 4:45 PM	154.00	2.80	24.30	26.70	2.40	37.50	24.30	7.30	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 5:00 PM	135.00	2.70	27.80	27.90	0.10	36.20	27.80	7.30	27.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 5:15 PM	80.00	3.20	40.20	7.30	0.00	40.20	29.50	7.30	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 5:30 PM	72.00	3.30	38.50	7.30	0.00	38.50	29.50	7.30	32.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 5:45 PM	66.00	3.60	41.60	7.30	0.00	41.60	31.80	7.30	33.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 6:00 PM	17.00	2.20	38.90	7.30	0.00	38.90	35.50	7.30	33.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 6:15 PM	71.00	2.90	49.20	7.30	0.00	49.20	40.80	7.30	35.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 6:30 PM	196.00	6.40	7.30	61.40	54.10	61.40	45.90	7.30	66.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 6:45 PM	254.00	3.90	7.30	135.30	128.00	135.30	77.40	7.30	77.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 7:00 PM	59.00	1.80	167.20	7.30	0.00	167.20	121.10	7.30	108.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 7:15 PM	192.00	2.70	7.30	122.70	115.40	122.70	149.80	7.30	92.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 7:30 PM	204.00	2.60	7.30	145.40	138.10	145.40	164.60	7.30	107.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 7:45 PM	215.00	1.80	7.30	60.50	53.20	60.50	51.20	7.30	52.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 8:00 PM	214.00	2.40	7.30	46.40	39.10	46.40	52.30	7.30	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 8:15 PM	209.00	3.10	7.30	46.40	39.10	46.40	53.20	7.30	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 8:30 PM	204.00	2.50	7.30	23.80	16.50	23.80	44.10	7.30	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 8:45 PM	221.00	1.50	7.30	23.80	16.50	23.80	46.30	7.30	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 9:00 PM	185.00	2.30	7.30	30.40	23.10	30.40	50.40	7.30	25.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 9:15 PM	214.00	2.30	7.30	31.80	24.50	31.80	54.00	7.30	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 9:30 PM	190.00	2.60	7.30	27.60	20.30	27.60	51.90	7.30	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 9:45 PM	194.00	2.90	7.30	22.10	14.80	22.10	42.70	7.30	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 10:00 PM	189.00	3.10	7.30	18.50	11.20	18.50	39.30	7.30	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 10:15 PM	151.00	0.90	38.00	18.60	0.00	18.20	38.00	7.30	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 10:30 PM	219.00	2.30	7.30	17.70	10.40	17.70	40.00	7.30	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 10:45 PM	186.00	2.60	7.30	17.50	10.20	17.50	38.60	7.30	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 11:00 PM	185.00	3.10	7.30	20.40	13.10	20.40	39.70	7.30	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 11:15 PM	203.00	3.80	7.30	20.50	13.20	20.50	43.50	7.30	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 11:30 PM	212.00	2.50	7.30	23.50	16.20	23.50	45.80	7.30	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/14 11:45 PM	190.00	2.90	7.30	26.20	18.90	26.20	49.50	7.30	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/27/14 12:00 AM	190.00	2.30	7.30	24.00	16.70	24.00	48.10	7.30	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/27/14 12:15 AM	201.00	2.50	7.30	19.60	12.30	19.60	42.80	7.30	19.90	0.00	0.00	0.00	0.00			



US Army Corps
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Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
May 2014

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		
5/27/14 8:30 AM	250.00	5.80	7.30	10.40	3.10	10.40	12.40	7.30	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 8:45 AM	222.00	5.10	7.30	9.40	2.10	9.40	12.00	7.30	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 9:00 AM	235.00	3.80	7.30	10.20	2.90	10.20	11.70	7.30	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 9:15 AM	232.00	4.20	7.30	10.10	2.80	10.10	11.80	7.30	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 9:30 AM	265.00	4.30	7.30	11.10	3.80	11.10	12.00	7.30	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 9:45 AM	209.00	3.00	18.00	10.70	0.00	10.70	10.90	18.00	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 10:00 AM	266.00	3.80	17.70	9.50	0.00	9.50	10.90	17.70	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 10:15 AM	254.00	4.70	17.10	9.20	0.00	9.20	10.70	17.10	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 10:30 AM	298.00	3.80	11.90	11.00	0.00	10.60	11.00	17.60	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 10:45 AM	247.00	3.10	17.30	11.70	0.00	11.70	11.50	17.30	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 11:00 AM	241.00	3.10	19.60	12.60	0.00	12.60	11.50	19.60	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 11:15 AM	236.00	6.70	18.80	13.70	0.00	13.70	10.80	18.80	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 11:30 AM	223.00	2.90	20.60	14.90	0.00	14.90	10.70	20.60	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 11:45 AM	221.00	2.80	21.10	17.60	0.00	17.60	11.00	21.10	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 12:00 PM	218.00	3.10	19.80	16.10	0.00	16.10	10.90	19.80	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 12:15 PM	214.00	4.00	20.70	16.90	0.00	16.90	11.60	20.70	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 12:30 PM	198.00	2.70	24.90	20.40	0.00	20.40	14.70	24.90	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 12:45 PM	252.00	3.70	30.60	16.80	0.00	16.80	16.40	30.60	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 1:00 PM	206.00	5.10	27.00	19.70	0.00	19.70	18.20	27.00	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 1:15 PM	199.00	4.10	24.80	16.20	0.00	16.20	17.50	24.80	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 1:30 PM	267.00	5.50	18.70	9.80	0.00	9.80	11.90	18.70	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 1:45 PM	248.00	3.50	16.50	7.80	0.00	7.80	10.50	16.50	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 2:00 PM	235.00	4.40	15.20	8.30	0.00	8.30	9.10	15.20	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 2:15 PM	208.00	3.40	10.60	2.60	0.00	2.60	7.00	10.60	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 2:30 PM	248.00	4.70	10.80	1.80	0.00	1.80	6.00	10.80	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 2:45 PM	219.00	3.80	11.00	6.40	0.00	6.40	6.50	11.00	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 3:00 PM	232.00	4.20	12.60	9.10	0.00	9.10	6.70	12.60	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 3:15 PM	235.00	3.90	15.50	13.50	0.00	13.50	8.00	15.50	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 3:30 PM	249.00	4.20	16.70	13.90	0.00	13.90	8.30	16.70	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 3:45 PM	239.00	3.60	11.80	6.60	0.00	6.60	6.90	11.80	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 4:00 PM	240.00	7.90	13.70	8.00	0.00	8.00	6.60	13.70	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 4:15 PM	246.00	3.00	11.40	6.00	0.00	6.00	6.40	11.40	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 4:30 PM	265.00	4.90	12.20	0.00	0.00	0.00	6.30	12.20	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 4:45 PM	237.00	2.70	10.70	5.60	0.00	5.60	6.90	10.70	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 5:00 PM	250.00	2.70	8.30	5.00	0.00	5.00	5.70	8.30	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 5:15 PM	229.00	3.60	9.40	3.50	0.00	3.50	5.80	9.40	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 5:30 PM	221.00	4.40	10.20	7.30	0.00	7.30	6.20	10.20	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 5:45 PM	267.00	4.30	12.90	11.90	0.00	11.90	6.80	12.90	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 6:00 PM	23.00	8.80	12.20	12.70	0.50	12.20	6.70	12.70	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 6:15 PM	15.00	11.00	11.00	11.60	0.60	11.00	7.20	11.60	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 6:30 PM	16.00	8.20	10.60	10.80	0.20	10.60	7.00	10.80	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 6:45 PM	6.00	11.00	10.80	11.00	0.20	10.80	7.90	11.00	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 7:00 PM	3.00	8.40	22.00	13.50	0.00	22.00	8.80	13.50	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 7:15 PM	4.00	8.80	39.00	19.60	0.00	39.00	23.70	19.60	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 7:30 PM	16.00	8.60	6.20	13.00	6.80	6.20	16.70	13.00	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 7:45 PM	11.00	4.40	5.50	14.30	8.80	5.50	10.40	14.30	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 8:00 PM	63.00	4.60	-1.70	11.40	13.10	-1.70	7.50	11.40	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 8:15 PM	47.00	1.00	-0.30	10.90	11.20	-0.30	10.70	10.90	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 8:30 PM	290.00	2.10	4.10	8.40	4.30	1.80	8.40	11.40	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 8:45 PM	300.00	2.20	5.00	10.80	5.80	1.60	10.80	13.20	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 9:00 PM	325.00	2.80	3.40	10.90	7.50	4.80	10.90	12.90	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 9:15 PM	8.00	3.20	-2.70	15.80	18.50	-2.70	9.30	15.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 9:30 PM	305.00	1.90	3.30	10.20	6.90	2.40	10.20	16.10	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 9:45 PM	87.00	1.80	3.30	15.50	12.20	3.30	10.70	15.50	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 10:00 PM	37.00	1.40	4.40	18.20	13.80	4.40	12.90	18.20	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 10:15 PM	168.00	1.40	22.00	11.10	0.00	11.80	22.00	24.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 10:30 PM	249.00	1.60	27.10	11.10	0.00	11.10	22.20	27.10	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 10:45 PM	358.00	1.20	10.80	22.10	11.30	11.60	22.10	31.50	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 11:00 PM	15.00	0.50	15.40	30.10	14.70	15.40	23.20	30.10	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 11:15 PM	62.00	2.90	24.70	33.60	8.90	24.70	23.00	33.60	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 11:30 PM	47.00	5.60	33.60	36.30	2.70	33.60	29.60	36.30	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/14 11:45 PM	0.00	4.20	20.40	41.30	20.90	20.40	32.20	41.30	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/28/14 12:00 AM	7.00	4.60	5.50	32.60	27.10	5.50	45.60	32.60	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/28/14 12:15 AM	41.00	3.40	18.70	10.00	0.00	18.70	25.70	10.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/28/14 12:30 AM	41.00	2.90	8.90	6.40	0.00	8.90	14.30	6.40	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/28/14 12:45 AM	34.00	2.10	-1.30	8.10	9.40	-1.30	10.80	8.10	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/28/14 1:00 AM	49.00	2.80	12.10	6.10	0.00	12.10	14.50	6.10	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/28/14 1:15 AM	328.00	2.10	3.20	13.80	10.60	10.60	13.80	6.80	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/28/14 1:30 AM	323.00	5.50	2.80	12.20	9.40	12.00	12.20	8.80	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/28/14 1:45 AM	355.00	3.00	2.80	14.00														



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
5/28/14 9:45 AM	12.00	5.30	8.40	5.20	0.00	8.40	4.60	5.20	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 10:00 AM	0.00	5.20	9.10	4.70	0.00	9.10	5.60	4.70	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 10:15 AM	42.00	4.60	16.10	6.80	0.00	16.10	5.40	6.80	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 10:30 AM	359.00	4.80	4.80	5.20	0.40	27.40	5.20	7.50	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 10:45 AM	3.00	4.00	13.70	6.20	0.00	13.70	9.40	6.20	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 11:00 AM	3.00	6.20	11.00	6.40	0.00	11.00	6.10	6.40	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 11:15 AM	18.00	4.90	10.50	6.20	0.00	10.50	6.80	6.20	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 11:30 AM	19.00	5.70	5.10	5.90	0.80	5.10	4.70	5.90	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 11:45 AM	17.00	6.20	12.80	5.90	0.00	12.80	5.30	5.90	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 12:00 PM	16.00	6.20	12.70	5.80	0.00	12.70	7.40	5.80	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 12:15 PM	43.00	5.50	10.70	5.80	0.00	10.70	6.50	5.80	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 12:30 PM	0.00	0.00	0.00	0.00	0.00	11.90	8.80	6.30	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 12:45 PM	34.00	4.00	15.70	5.90	0.00	15.70	7.40	5.90	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 1:00 PM	41.00	5.60	18.80	7.10	0.00	18.80	7.10	7.10	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 1:15 PM	43.00	7.00	11.80	7.40	0.00	11.80	7.40	7.40	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 1:30 PM	43.00	5.50	27.40	10.20	0.00	27.40	7.90	10.20	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 1:45 PM	38.00	5.20	9.30	6.00	0.00	9.30	12.00	6.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 2:00 PM	49.00	7.60	41.20	10.80	0.00	41.20	7.60	10.80	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 2:15 PM	49.00	6.90	19.80	9.30	0.00	19.80	9.70	9.30	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 2:30 PM	34.00	6.40	16.60	9.30	0.00	16.60	13.00	9.30	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 2:45 PM	35.00	7.30	12.10	8.80	0.00	12.10	7.90	8.80	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 3:00 PM	36.00	6.80	14.80	7.70	0.00	14.80	14.60	7.70	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 3:15 PM	27.00	6.00	0.00	13.90	0.00	0.00	6.30	13.90	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 3:30 PM	31.00	6.80	9.50	13.50	4.00	9.50	7.20	13.50	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 3:45 PM	30.00	4.80	7.00	14.50	7.50	7.00	6.10	14.50	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 4:00 PM	15.00	8.50	11.70	11.90	0.20	11.70	5.90	11.90	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 4:15 PM	17.00	6.60	3.20	12.60	9.40	3.20	6.20	12.60	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 4:30 PM	32.00	6.40	9.80	16.10	6.30	9.80	7.10	16.10	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 4:45 PM	29.00	5.40	6.40	13.00	6.60	6.40	7.40	13.00	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 5:00 PM	37.00	5.30	12.30	16.00	3.70	12.30	6.80	16.00	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 5:15 PM	38.00	5.90	23.30	15.20	0.00	23.30	6.30	15.20	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 5:30 PM	6.00	7.50	28.00	14.20	0.00	28.00	8.00	14.20	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 5:45 PM	14.00	5.10	45.10	16.20	0.00	45.10	18.90	16.20	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 6:00 PM	8.00	5.50	35.80	13.00	0.00	35.80	19.50	13.00	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 6:15 PM	20.00	8.00	82.10	37.00	0.00	82.10	28.50	37.00	28.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 6:30 PM	30.00	7.20	106.40	46.40	0.00	106.40	42.30	46.40	32.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 6:45 PM	30.00	7.70	92.40	45.60	0.00	92.40	78.80	45.60	37.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 7:00 PM	37.00	7.00	79.60	52.10	0.00	79.60	137.80	52.10	42.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 7:15 PM	43.00	6.70	36.80	33.20	0.00	36.80	23.90	33.20	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 7:30 PM	44.00	6.10	12.20	16.30	4.10	12.20	13.70	16.30	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 7:45 PM	25.00	8.00	8.20	10.90	2.70	8.20	13.10	10.90	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 8:00 PM	38.00	6.50	7.10	10.80	3.70	7.10	9.10	10.80	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 8:15 PM	43.00	6.30	3.00	12.00	9.00	3.00	7.00	12.00	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 8:30 PM	35.00	5.50	5.20	8.80	3.60	5.20	7.50	8.80	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 8:45 PM	34.00	5.00	3.90	10.40	6.50	3.90	5.70	10.40	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 9:00 PM	14.00	4.70	13.20	6.80	0.00	13.20	7.60	6.80	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 9:15 PM	5.00	4.30	3.10	8.70	5.60	3.10	5.80	8.70	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 9:30 PM	13.00	3.90	9.50	11.90	2.40	9.50	4.90	11.90	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 9:45 PM	356.00	3.70	2.80	9.10	6.30	5.50	9.10	5.50	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 10:00 PM	5.00	5.30	3.50	5.60	2.10	3.50	7.90	5.60	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 10:15 PM	340.00	4.60	2.40	9.10	6.70	6.50	9.10	4.80	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 10:30 PM	2.00	5.80	8.40	4.80	0.00	8.40	8.80	4.80	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 10:45 PM	8.00	4.60	9.30	4.50	0.00	9.30	10.20	4.50	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 11:00 PM	20.00	5.60	10.00	4.80	0.00	10.00	7.00	4.80	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 11:15 PM	38.00	4.80	2.90	4.70	1.80	2.90	8.90	4.70	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 11:30 PM	31.00	4.00	1.70	4.80	3.10	1.70	6.20	4.80	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/14 11:45 PM	34.00	5.40	7.60	5.00	0.00	7.60	7.50	5.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/29/14 12:00 AM	38.00	4.60	13.50	4.90	0.00	13.50	7.60	4.90	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/29/14 12:15 AM	45.00	3.20	9.10	5.00	0.00	9.10	0.00	5.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/29/14 12:30 AM	41.00	2.60	15.60	5.50	0.00	15.60	8.20	5.50	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/29/14 12:45 AM	1.00	3.50	9.00	21.10	12.10	9.00	5.10	21.10	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/29/14 1:00 AM	8.00	3.70	8.10	19.90	11.80	8.10	5.40	19.90	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/29/14 1:15 AM	3.00	3.80	3.60	14.30	10.70	3.60	7.40	14.30	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/29/14 1:30 AM	354.00	3.00	5.80	10.00	4.40	3.00	10.00	10.00	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/29/14 1:45 AM	9.00	3.40	6.50	7.10	0.60	6.50	9.10	7.10	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/29/14 2:00 AM	38.00	2.30	4.00	7.40	3.40	4.00	9.10	7.40	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/29/14 2:15 AM	6.00	3.60	1.60	7.70	6.10	1.60	7.50	7.70	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/29/14 2:30 AM	26.00	3.90	2.00	8.20	6.20	2.00	7.90	8.20	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/29/14 2:45 AM	40.00	3.30	2.90	8.90	6.00	2.90	9.00	8.90	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/29/14 3:00 AM	43.00	3.80	8.90	9.90	1.00	8.90	11.70	9.90	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/29/14 3:15 AM	41.00	3.40	13.40	11.20</												



US Army Corps
of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
May 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (ug/m ³)								Naphthalene (ug/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
			5/29/14 11:00 AM	48.00	5.20	38.10	33.90	0.00	38.10	27.50	33.90	19.50	0.00	0.00	0.00	0.00	0.00	0.00
5/29/14 11:15 AM	37.00	4.20	43.60	34.70	0.00	43.60	30.20	34.70	33.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 11:30 AM	38.00	4.90	56.10	41.40	0.00	56.10	30.90	41.40	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 11:45 AM	36.00	4.70	27.40	29.20	1.80	27.40	20.80	29.20	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 12:00 PM	33.00	5.20	26.10	28.00	1.90	26.10	23.30	28.00	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 12:15 PM	0.00	0.00	0.00	0.00	0.00	0.00	33.90	33.30	30.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 12:30 PM	38.00	5.20	42.10	40.80	0.00	42.10	36.00	40.80	26.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 12:45 PM	18.00	6.40	34.90	35.90	1.00	34.90	36.30	35.90	28.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 1:00 PM	25.00	6.40	24.80	32.40	7.60	24.80	26.10	32.40	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 1:15 PM	3.00	4.60	27.00	39.40	12.40	27.00	29.10	39.40	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 1:30 PM	21.00	6.20	26.50	32.60	6.10	26.50	26.70	32.60	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 1:45 PM	12.00	8.20	41.70	35.50	0.00	41.70	27.40	35.50	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 2:00 PM	16.00	8.80	56.40	29.40	0.00	56.40	29.90	29.40	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 2:15 PM	14.00	8.00	54.70	28.30	0.00	54.70	33.70	28.30	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 2:30 PM	14.00	6.20	69.20	32.00	0.00	69.20	35.90	32.00	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 2:45 PM	15.00	5.10	66.90	32.50	0.00	66.90	31.60	32.50	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 3:00 PM	41.00	3.30	55.50	36.40	0.00	55.50	32.40	36.40	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 3:15 PM	51.00	4.40	54.70	32.00	0.00	54.70	31.50	32.00	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 3:30 PM	37.00	3.80	57.10	30.50	0.00	57.10	37.30	30.50	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 3:45 PM	65.00	3.20	52.40	35.90	0.00	52.40	33.50	35.90	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 4:00 PM	21.00	5.20	35.70	39.70	4.00	35.70	33.00	39.70	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 4:15 PM	52.00	4.50	30.60	31.50	0.90	30.60	25.60	31.50	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 4:30 PM	43.00	5.70	25.00	32.10	7.10	25.00	21.80	32.10	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 4:45 PM	22.00	5.10	23.00	31.90	8.90	23.00	23.20	31.90	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 5:00 PM	28.00	5.30	29.80	33.90	4.10	29.80	26.60	33.90	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 5:15 PM	14.00	4.20	38.90	38.60	0.00	38.90	32.20	38.60	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 5:30 PM	43.00	5.60	44.70	40.20	0.00	44.70	39.50	40.20	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 5:45 PM	40.00	9.20	53.10	37.90	0.00	53.10	41.90	37.90	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 6:00 PM	28.00	6.20	50.70	44.00	0.00	50.70	45.60	44.00	26.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 6:15 PM	31.00	5.30	56.80	36.00	0.00	56.80	51.80	36.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 6:30 PM	29.00	5.50	42.40	34.50	0.00	42.40	43.20	34.50	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 6:45 PM	47.00	5.70	58.90	40.90	0.00	58.90	45.30	40.90	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 7:00 PM	39.00	5.80	43.90	52.50	8.60	43.90	50.00	52.50	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 7:15 PM	60.00	4.70	39.30	56.20	16.90	39.30	42.30	56.20	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 7:30 PM	37.00	4.80	46.80	56.50	9.70	46.80	39.80	56.50	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 7:45 PM	38.00	5.20	41.70	57.40	15.70	41.70	40.30	57.40	26.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 8:00 PM	43.00	4.40	40.90	58.80	17.90	40.90	39.70	58.80	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 8:15 PM	36.00	5.50	36.30	45.70	9.40	36.30	38.30	45.70	28.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 8:30 PM	47.00	5.90	34.10	41.30	7.20	34.10	38.30	41.30	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 8:45 PM	40.00	4.60	31.00	38.70	7.70	31.00	40.40	38.70	25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 9:00 PM	43.00	5.30	34.40	39.20	4.80	34.40	41.60	39.20	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 9:15 PM	46.00	6.10	31.20	36.60	5.40	31.20	40.30	36.60	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 9:30 PM	49.00	5.70	23.90	34.80	10.90	23.90	35.00	34.80	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 9:45 PM	74.00	3.10	21.40	32.00	10.60	21.40	34.80	32.00	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 10:00 PM	69.00	3.20	20.20	34.60	14.40	20.20	40.90	34.60	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 10:15 PM	52.00	2.40	18.80	26.70	7.90	18.80	36.90	26.70	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 10:30 PM	59.00	1.70	13.10	24.90	11.80	13.10	30.00	24.90	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 10:45 PM	59.00	3.80	16.60	23.80	7.20	16.60	21.30	23.80	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 11:00 PM	34.00	3.90	12.20	19.30	7.10	12.20	38.40	19.30	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 11:15 PM	33.00	2.40	12.30	21.00	8.70	12.30	25.40	21.00	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 11:30 PM	42.00	6.00	21.00	23.20	2.20	21.00	30.20	23.20	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/29/14 11:45 PM	37.00	3.50	0.00	25.50	0.00	0.00	17.40	25.50	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/30/14 12:00 AM	40.00	3.80	5.70	13.70	8.00	5.70	12.90	13.70	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/30/14 12:15 AM	10.00	3.40	5.60	10.70	5.10	5.60	11.60	10.70	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/30/14 12:30 AM	6.00	2.70	4.80	12.60	7.80	4.80	9.20	12.60	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/30/14 12:45 AM	4.00	3.90	4.50	14.90	10.40	4.50	8.20	14.90	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/30/14 1:00 AM	45.00	3.40	5.80	9.00	3.20	5.80	8.00	9.00	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/30/14 1:15 AM	52.00	3.40	10.30	7.90	0.00	10.30	8.90	7.90	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/30/14 1:30 AM	45.00	2.70	8.40	7.80	0.00	8.40	8.00	7.80	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/30/14 1:45 AM	2.00	1.90	3.90	7.70	3.80	3.90	7.60	7.70	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/30/14 2:00 AM	351.00	2.10	3.30	8.20	4.90	8.00	8.20	8.60	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/30/14 2:15 AM	50.00	2.20	4.90	8.40	3.50	4.90	7.40	8.40	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/30/14 2:30 AM	33.00	2.30	6.00	8.40	2.40	6.00	8.40	8.40	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/30/14 2:45 AM	27.00	1.90	5.50	8.50	3.00	5.50	8.80	8.50	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5/30/14 3:00 AM	33.00	1.80	4.00	8.60	4.60	4.00	9.50	8.60	4.40	0.00	0.00	0						



US Army Corps
of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
May 2014

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
5/30/14 12:15 PM	36.00	4.40	50.90	33.20	0.00	50.90	51.80	33.20	32.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 12:30 PM	29.00	4.80	47.20	36.30	0.00	47.20	47.00	36.30	37.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 12:45 PM	45.00	5.40	57.70	36.80	0.00	57.70	52.50	36.80	41.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 1:00 PM	44.00	5.20	54.70	35.90	0.00	54.70	55.20	35.90	36.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 1:15 PM	46.00	5.60	52.60	32.80	0.00	52.60	52.70	32.80	39.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 1:30 PM	52.00	5.90	58.30	46.20	0.00	58.30	51.10	46.20	38.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 1:45 PM	26.00	5.20	61.80	42.60	0.00	61.80	53.40	42.60	35.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 2:00 PM	48.00	6.10	60.90	38.00	0.00	60.90	70.00	38.00	36.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 2:15 PM	52.00	4.70	59.20	36.90	0.00	59.20	52.40	36.90	37.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 2:30 PM	45.00	6.50	51.30	32.30	0.00	51.30	47.80	32.30	36.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 2:45 PM	37.00	4.30	50.20	32.90	0.00	50.20	46.90	32.90	37.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 3:00 PM	45.00	5.10	42.80	42.80	0.00	42.80	49.50	42.80	34.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 3:15 PM	56.00	5.00	38.70	33.50	0.00	38.70	47.70	33.50	34.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 3:30 PM	46.00	4.40	37.50	33.90	0.00	37.50	45.30	33.90	34.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 3:45 PM	41.00	4.70	38.10	34.10	0.00	38.10	39.30	34.10	32.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 4:00 PM	47.00	3.70	72.90	33.40	0.00	72.90	43.70	33.40	28.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 4:15 PM	36.00	5.10	38.50	32.80	0.00	38.50	38.70	32.80	29.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 4:30 PM	52.00	7.20	36.90	32.90	0.00	36.90	36.90	32.90	29.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 4:45 PM	38.00	9.00	33.20	30.90	0.00	33.20	32.80	30.90	27.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 5:00 PM	50.00	6.70	32.20	28.50	0.00	32.20	33.90	28.50	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 5:15 PM	42.00	7.50	30.10	27.10	0.00	30.10	30.10	27.10	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 5:30 PM	38.00	6.60	34.80	27.50	0.00	34.80	32.20	27.50	24.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 5:45 PM	35.00	6.80	38.70	32.50	0.00	38.70	36.70	32.50	25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 6:00 PM	37.00	5.90	42.70	31.60	0.00	42.70	38.70	31.60	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 6:15 PM	45.00	4.10	39.80	30.80	0.00	39.80	35.80	30.80	26.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 6:30 PM	27.00	3.60	42.10	32.20	0.00	42.10	37.10	32.20	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 6:45 PM	28.00	3.30	44.90	30.90	0.00	44.90	36.80	30.90	32.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 7:00 PM	53.00	4.10	43.30	30.80	0.00	43.30	38.10	30.80	27.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 7:15 PM	38.00	3.70	44.00	29.90	0.00	44.00	40.40	29.90	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 7:30 PM	54.00	5.30	47.20	29.80	0.00	47.20	42.70	29.80	28.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 7:45 PM	60.00	5.00	46.50	29.20	0.00	46.50	37.80	29.20	30.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 8:00 PM	70.00	4.40	45.80	32.80	0.00	45.80	38.90	32.80	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 8:15 PM	68.00	3.60	50.30	32.40	0.00	50.30	44.00	32.40	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 8:30 PM	63.00	4.40	57.50	30.70	0.00	57.50	53.60	30.70	26.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 8:45 PM	61.00	4.90	43.50	42.40	0.00	43.50	76.10	42.40	30.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 9:00 PM	53.00	6.40	104.30	222.10	117.80	104.30	138.50	222.10	35.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 9:15 PM	51.00	3.70	41.60	54.10	12.50	41.60	111.50	54.10	48.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 9:30 PM	57.00	4.10	50.20	38.10	0.00	50.20	61.60	38.10	45.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 9:45 PM	55.00	3.60	57.40	35.30	0.00	57.40	54.00	35.30	26.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 10:00 PM	36.00	2.50	61.50	36.40	0.00	61.50	50.90	36.40	24.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 10:15 PM	35.00	2.90	40.40	32.60	0.00	40.40	56.70	32.60	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 10:30 PM	29.00	2.30	44.50	32.00	0.00	44.50	51.50	32.00	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 10:45 PM	48.00	2.00	43.40	32.30	0.00	43.40	45.20	32.30	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 11:00 PM	16.00	2.00	45.20	36.40	0.00	45.20	47.40	36.40	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 11:15 PM	36.00	3.00	42.90	26.30	0.00	42.90	50.90	26.30	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 11:30 PM	43.00	3.10	40.80	29.50	0.00	40.80	50.30	29.50	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/14 11:45 PM	55.00	2.60	38.60	30.90	0.00	38.60	55.20	30.90	25.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/14 12:00 AM	41.00	1.90	36.40	34.00	0.00	36.40	55.10	34.00	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/14 12:15 AM	33.00	1.50	33.50	35.60	2.10	33.50	56.00	35.60	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/14 12:30 AM	348.00	1.30	24.80	61.60	36.80	32.60	61.60	45.00	24.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/14 12:45 AM	44.00	1.40	35.60	43.00	7.40	35.60	61.60	43.00	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/14 1:00 AM	35.00	1.20	46.50	34.10	0.00	46.50	57.40	34.10	32.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/14 1:15 AM	53.00	1.80	48.50	38.90	0.00	48.50	73.20	38.90	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/14 1:30 AM	282.00	0.20	23.90	75.90	52.00	36.90	75.90	37.30	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/14 1:45 AM	35.00	3.00	37.60	36.20	0.00	37.60	59.30	36.20	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/14 2:00 AM	45.00	3.30	30.30	43.90	13.60	30.30	51.80	43.90	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/14 2:15 AM	48.00	2.80	34.90	42.60	7.70	34.90	57.90	42.60	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/14 2:30 AM	58.00	3.60	34.10	37.40	3.30	34.10	51.10	37.40	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/14 2:45 AM	49.00	3.20	30.30	34.10	3.80	30.30	51.70	34.10	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/14 3:00 AM	51.00	3.20	27.20	36.50	9.30	27.20	52.60	36.50	24.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/14 3:15 AM	56.00	2.40	25.20	48.80	23.60	25.20	46.10	48.80	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/14 3:30 AM	43.00	2.60	25.10	44.80	19.70	25.10	49.20	44.80	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/14 3:45 AM	55.00	3.00	24.70	43.50	18.80	24.70	48.20	43.50	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/14 4:00 AM	33.00	2.40	27.20	42.60	15.40	27.20	46.80	42.60	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/14 4:15 AM	353.00	1.40	24.70	50.20	25.50	26.60	50.20	43.10	24.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/14 4:30 AM	329.00	0.60	17.40	52.50	35.10	28.40	52.50	37.30	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/14 4:45 AM	57.00	1.10	30.10	42.40	12.30	30.10	51.20	42.40	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/14 5:00 AM	47.00	0.70	32.90	49.80	16.90	32.90	52.20	49.80	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/14 5:15 AM	324.00	0.30	17.00	56.90	39.90	36.70	56.90	32.20	17.00	0.00	0.00	0.00</				



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Real-Time Air Monitoring Data
May 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
5/31/14 1:30 PM	157.00	3.40	14.70	12.60	0.00	8.70	14.70	5.40	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 1:45 PM	187.00	3.20	5.40	9.80	4.40	9.80	8.10	5.40	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 2:00 PM	181.00	2.40	5.20	9.20	4.00	9.20	8.70	5.20	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 2:15 PM	0.00	0.00	0.00	0.00	0.00	11.90	11.30	5.80	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 2:30 PM	143.00	2.00	18.00	12.90	0.00	12.80	18.00	4.50	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 2:45 PM	110.00	4.10	8.90	14.30	5.40	12.20	8.90	5.10	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 3:00 PM	119.00	3.30	9.30	12.60	3.30	12.50	9.30	5.30	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 3:15 PM	88.00	1.90	13.30	6.20	0.00	13.30	10.60	6.20	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 3:30 PM	54.00	5.50	15.30	5.70	0.00	15.30	10.60	5.70	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 3:45 PM	90.00	3.20	12.40	35.90	23.50	17.90	12.40	8.40	35.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 4:00 PM	71.00	5.70	24.60	9.80	0.00	24.60	13.80	9.80	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 4:15 PM	83.00	4.40	63.00	10.80	0.00	63.00	14.80	10.80	50.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 4:30 PM	71.00	4.60	52.90	19.20	0.00	52.90	23.40	19.20	90.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 4:45 PM	76.00	5.40	67.80	24.00	0.00	67.80	32.30	24.00	47.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 5:00 PM	115.00	4.30	39.90	47.10	7.20	38.50	39.90	25.90	47.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 5:15 PM	97.00	4.80	24.60	52.80	28.20	73.40	24.60	12.20	52.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 5:30 PM	92.00	4.80	29.60	72.80	43.20	0.00	29.60	12.60	72.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 5:45 PM	100.00	4.70	27.50	45.10	17.60	44.90	27.50	10.20	45.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 6:00 PM	89.00	4.50	32.50	17.10	0.00	32.50	30.80	17.10	29.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 6:15 PM	96.00	3.80	29.00	35.30	6.30	45.50	29.00	12.80	35.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 6:30 PM	87.00	4.10	56.50	13.20	0.00	56.50	25.90	13.20	67.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 6:45 PM	96.00	5.10	25.00	62.50	37.50	66.00	25.00	13.20	62.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 7:00 PM	85.00	4.20	70.90	15.30	0.00	70.90	36.10	15.30	59.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 7:15 PM	97.00	4.20	25.80	44.50	18.70	61.10	25.80	14.00	44.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 7:30 PM	79.00	7.70	68.20	15.20	0.00	68.20	27.00	15.20	51.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 7:45 PM	93.00	4.50	24.00	44.10	20.10	44.50	24.00	14.20	44.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 8:00 PM	89.00	5.20	25.40	11.80	0.00	25.40	22.50	11.80	37.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 8:15 PM	115.00	3.30	22.50	45.00	22.50	31.50	22.50	11.30	45.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 8:30 PM	114.00	2.30	21.40	37.80	16.40	24.60	21.40	10.60	37.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 8:45 PM	89.00	2.40	40.10	12.10	0.00	40.10	25.10	12.10	35.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 9:00 PM	105.00	2.00	21.50	44.30	22.80	28.50	21.50	12.60	44.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 9:15 PM	92.00	2.20	22.80	45.60	22.80	22.60	22.80	12.40	45.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 9:30 PM	82.00	1.80	18.00	15.00	0.00	18.00	24.10	15.00	35.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 9:45 PM	83.00	2.40	16.10	14.90	0.00	16.10	22.40	14.90	32.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 10:00 PM	96.00	2.30	23.60	24.30	0.70	14.10	23.60	16.00	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 10:15 PM	112.00	1.00	25.50	25.50	0.00	15.20	25.50	17.50	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 10:30 PM	108.00	1.00	23.50	27.70	4.20	16.60	23.50	16.90	27.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 10:45 PM	124.00	1.20	25.00	41.60	16.60	22.00	25.00	16.60	41.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 11:00 PM	154.00	1.80	25.40	35.40	10.00	19.40	25.40	17.00	35.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 11:15 PM	172.00	1.70	29.00	23.80	0.00	23.90	29.00	15.90	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 11:30 PM	167.00	1.30	27.30	23.60	0.00	27.40	27.30	16.70	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/31/14 11:45 PM	181.00	1.60	22.40	26.50	4.10	26.50	28.80	22.40	28.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

IHC CDF Dredge Project : Air Monitoring Alarm Response Log

Air Monitoring Station: M1 M2 M3 M4 Dock

Air Monitoring Instrument:

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

Date & Time of alarm: 5/28/2014 5:30 Email sent to site Technician? (Yes or No)

Technician responded to the alarm; Scott Peterson

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

2. Alarm caused by:

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

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:

- o After reviewing the video camera surveillance footage it was determined that fog caused the high practical readings.

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: 5/24/2014 to 5/27/2014 Email sent to site Technician? (Yes or **No**)

Technician responded to the alarm; Scott Peterson

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

2. Alarm caused by:

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

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:

- The computer inside of the Cerex unit ran out of vital memory space which cause the computer to freeze up. The file web server input data was stuck on 7.3 because of loss of radio communications from the air unit computer. The file that stores the air monitoring data was reduced by uploading the information to an external drive. The air unit was check on 05/27/2014 at 15:30 to comfirm proper operation.

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: 5/23/2014 6:45-8:45 Email sent to site Technician? Yes or No

Technician responded to the alarm; Scott Peterson

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

2. Alarm caused by:

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

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:

- o No problems were found wrong with the air units. Strong winds blowing dust from the gravel road may have caused the high partical readings.

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: 5/18/2014 to 5/20/2014 Email sent to site Technician? Yes or No

Technician responded to the alarm; Scott Peterson

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

2. Alarm caused by:

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

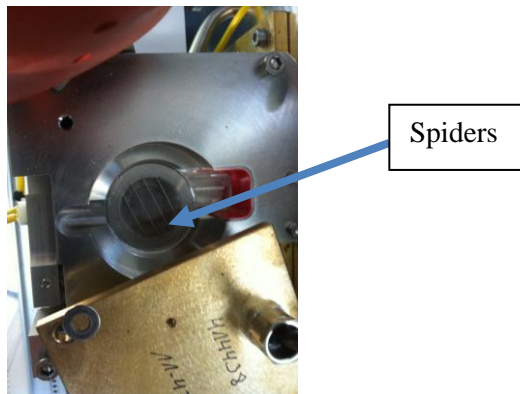
3. Corrective Actions taken? Yes or No)

4. Dredging suspended? (Yes or No)

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

Description of Action Taken:

- M1 Thermo Unit alarm was caused by spiders inside of the nephelometer and paper filter. The spiders were vacuumed out of the inlet tube and nephelometer. Unit was recalibrated and inspected at the end of the day for proper function.



- M3 Thermo Unit lost communication during the thunderstorms on May 17th. The unit was re-started and checked to confirm proper function at the end of the day.

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: 5/09/2014 7:00am-11:30am Email sent to site Technician? (Yes) or No)

Technician responded to the alarm; Scott Peterson

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

2. Alarm caused by:

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

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) Cerex air unit nephelometer was checked and found that it was over +30 ug/m3 out of calibration. The unit was cleaned and recalibrated. At 3:00 pm the Cerex air unit was checked again to confirm proper operation.

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: 5/06/2014 7:00am-10:30am Email sent to site Technician? Yes or No

Technician responded to the alarm; Scott Peterson

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

2. Alarm caused by:

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

3. Corrective Actions taken? (Yes or No)

4. Dredging suspended? (Yes or No)

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

Description of Action Taken:

A) No problems were found with the air units.