US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 2014
(note: weather station malfunction between 7/1 and 7/15)

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)							Naphthalene (µg/m³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
7/15/14 12:00 PM	334.00	4.70	4.20	7.20	3.00	1.90	7.20	8.20	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 12:15 PM	320.00	6.30	2.20	6.90	4.70	1.00	6.90	6.50	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 12:30 PM	312.00	6.80	3.20	7.30	4.10	2.10	7.30	6.90	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 12:45 PM	329.00	4.60	4.20	6.20	2.00	5.20	6.20	6.70	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 1:00 PM	318.00	6.30	3.00	6.20	3.20	2.30	6.20	6.20	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 1:15 PM	291.00	5.20	6.20	8.50	2.30	1.90	8.50	6.90	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 1:30 PM	269.00	4.00	6.20	1.90	0.00	1.90	6.50	6.20	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 1:45 PM	299.00	4.90	2.90	6.10	3.20	0.00	6.10	7.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 2:00 PM	317.00	3.70	9.40	6.00	0.00	2.40	6.00	6.80	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 2:15 PM	318.00	4.40	8.30	6.50	0.00	3.00	6.50	7.80	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 2:30 PM	306.00	4.80	6.50	7.40	0.90	4.70	7.40	7.60	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 2:45 PM	306.00	4.80	5.30	6.40	1.10	3.30	6.40	7.50	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 3:00 PM	306.00	4.00	4.70	5.50	0.80	0.00	5.50	6.80	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 3:15 PM	322.00	4.80	5.10	6.40	1.30	3.70	6.40	6.70	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 3:30 PM	298.00	5.30	5.70	7.60	1.90	2.80	7.60	9.50	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 3:45 PM	282.00	4.40	6.90	6.90	0.00	5.30	6.90	7.80	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 4:00 PM	284.00	5.60	7.10	6.10	0.00	2.40	6.10	7.60	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 4:15 PM	314.00	4.80	4.30	5.50	1.20	4.60	5.50	6.10	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 4:30 PM	285.00	6.60	2.70	5.60	2.90	1.50	5.60	6.80	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 4:45 PM	285.00	4.60	3.90	5.70	1.80	1.20	5.70	7.60	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 5:00 PM	292.00	4.00	5.60	6.30	0.70	3.90	6.30	6.20	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 5:15 PM	294.00	5.30	2.50	5.50	3.00	1.90	5.50	6.60	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 5:30 PM	275.00	2.90	8.30	5.30	0.00	1.20	5.30	7.30	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 5:45 PM	281.00	4.70	3.50	5.70	2.20	1.90	5.70	7.80	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 6:00 PM	320.00	5.90	3.60	5.80	2.20	1.70	5.80	7.40	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 6:15 PM	317.00	3.60	2.00	6.20	4.20	0.90	6.20	7.60	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 6:30 PM	314.00	6.60	2.90	5.70	2.80	0.80	5.70	6.90	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 6:45 PM	260.00	2.80	7.00	2.70	0.00	2.70	6.40	7.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 7:00 PM	237.00	3.00	7.80	2.40	0.00	2.40	6.60	7.80	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 7:15 PM	257.00	2.00	7.30	1.00	0.00	1.00	7.30	7.30	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 7:30 PM	267.00	2.40	7.50	2.40	0.00	2.40	10.40	7.50	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 7:45 PM	329.00	2.60	2.10	12.50	10.40	1.20	12.50	12.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 8:00 PM	305.00	4.50	3.60	15.20	11.60	2.60	15.20	15.70	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 8:15 PM	292.00	5.70	2.70	17.30	14.60	3.10	17.30	17.10	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 8:30 PM	307.00	3.40	2.00	16.40	14.40	2.50	16.40	16.10	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 8:45 PM	294.00	1.80	2.60	17.80	15.20	2.70	17.80	17.30	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 9:00 PM	286.00	2.30	1.40	13.90	12.50	0.50	13.90	13.50	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 9:15 PM	287.00	2.70	3.10	14.80	11.70	4.90	14.80	14.00	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 9:30 PM	307.00	2.60	2.70	18.80	16.10	2.40	18.80	14.30	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 9:45 PM	304.00	2.40	2.70	19.80	17.10	2.90	19.80	15.60	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 10:00 PM	312.00	3.30	3.40	21.60	18.20	3.50	21.60	18.40	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 10:15 PM	312.00	2.50	4.60	19.20	14.60	5.20	19.20	17.40	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 10:30 PM	318.00	2.30	5.00	18.60	13.60	4.00	18.60	17.50	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 10:45 PM	325.00	3.30	4.30	17.50	13.20	3.30	17.50	16.00	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 11:00 PM	320.00	2.50	4.00	16.50	12.50	2.60	16.50	15.20	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 11:15 PM	313.00	2.60	4.10	16.70	12.60	3.30	16.70	15.80	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 11:30 PM	311.00	2.80	4.40	17.40	13.00	3.50	17.40	15.50	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/14 11:45 PM	308.00	3.90	4.40	16.70	12.30	3.80	16.70	14.80	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 12:00 AM	319.00	2.70	4.60	18.40	13.80	4.40	18.40	15.30	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 12:15 AM	324.00	3.30	5.00	18.30	13.30	5.20	18.30	15.50	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 12:30 AM	327.00	4.20	6.20	18.50	12.30	5.30	18.50	15.60	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 12:45 AM	330.00	3.50	6.10	18.60	12.50	6.20	18.60	16.00	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 1:00 AM	10.00	2.50	6.70	17.10	10.40	6.70	18.60	17.10	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 1:15 AM	10.00	5.00	0.00	18.40	0.00	0.00	20.60	18.40	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 1:30 AM	21.00	2.00	21.30	26.60	5.30	21.30	36.60	26.60	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 1:45 AM	42.00	5.20	15.20	22.20	7.00	15.20	29.50	22.20	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 2:00 AM	22.00	2.30	11.50	17.50	6.00	11.50	21.90	17.50	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 2:15 AM	358.00	1.10	2.70	11.20	8.50	1.90	11.20	12.30	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 2:30 AM	334.00	0.50	2.50	10.80	8.30	0.90	10.80	11.30	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 2:45 AM	235.00	0.70	11.60	1.80	0.00	1.80	10.60	11.60	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 3:00 AM	317.00	1.50	2.50	12.70	10.20	3.40	12.70	12.90	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 3:15 AM	269.00	2.30	10.20	1.60	0.00	1.60	10.40	10.20	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 3:30 AM	277.00	2.10	3.20	9.80	6.60	0.40	9.80	10.00	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 3:45 AM	306.00	2.40	2.40	9.30	6.90	0.70	9.30	10.30	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 4:00 AM	272.00	2.30	2.70	9.00	6.30	1.60	9.00	9.80	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 4:15 AM	264.00	2.10	9.70	1.10	0.00	1.10	10.00	9.70	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 4:30 AM	265.00	2.30	12.30	9.10	0.00	9.10	17.30	12.30	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 4:45 AM	279.00	2.60	19.00	17.30	0.00	9.10	17.30	13.30	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 5:00 AM	269.00	2.00	15.50	13.40	0.00	13.40	20.70	15.50	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 5:15 AM	267.00	2.30	15.80	9.60	0.00	9.60	15.00	15.80	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 5:30 AM	260.00	1.90	16.90	9.50	0.00	9.50	15.90	16.90	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 5:45 AM	256.00	2.10	17.20	10.00	0.00	10.00	18.40	17.20	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 6:00 AM	256.00	2.20	17.50	11.30	0.00	11.30	19.70	17.50	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 6:15 AM	259.00	2.10	19.20	9.90	0.00	9.90	20.20	19.20	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 6:30 AM	258.00	2.10	21.40	13.20	0.00	13.20	20.90	21.40	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 6:45 AM	234.00	2.40	27.40	13.60	0.00	13.60	24.90	27.40	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 7:00 AM	256.00	2.40	28.00	15.20	0.00	15.20	24.60	28.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 7:15 AM	273.00	2.10	8.80	22.10	13.30	13.30	22.10	26.20	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 7:30 AM	268.00	2.10	27.00	13.70	0.00	13.70	22.00	27.00	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 7:45 AM	269.00	2.30	28.90	15.30	0.00	15.30	23.20	28.90	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 8:00 AM	283.00	1.60	10.80	20.60	9.80	16.40	20.60	27.20	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 8:15 AM	306.00	2.60	10.90	24.80	13.90	18.40	24.80	28.10	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 8:30 AM	305.00	2.70	10.30	23.50	13.20	19.10	23.50	29.30	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 8:45 AM	312.00	2.30	8.60	25.10	16.50	0.00	25.10	30.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 9:00 AM	326.00	2.80	9.20	17.90	8.70	14.20	17.90	19.60	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 9:15 AM	353.00	4.30	9.50	16.60	7.10	15.60	16.60	15.60	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 9:30 AM	1.00	5.30	20.60	14.30	0.00	20.60	15.70	14.30	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 9:45 AM	359.00	6.40	11.30	15.40	4.10	13.10	15.40	12.90	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 10:00 AM	343.00	5.90	12.70	13.60	0.90	12.70	13.60	10.70	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 10:15 AM	2.00	5.90	0.00	8.30	0.00	0.00	9.40	8.30	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 10:30 AM	11.00	6.10	6.40	7.20	0.80	6.40	8.00	7.20	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 10:45 AM	33.00	6.00	2.80	5.50	2.70	2.80	5.10	5.50	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 11:00 AM	10.00	7.10	4.90	5.60	0.70	4.90	6.20	5.60	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 11:15 AM	9.00	6.80	5.70	5.90	0.20	5.70	6.90	5.90	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 11:30 AM	14.00	4.00	0.00	5.50	0.00	0.00	6.70	5.50	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 11:45 AM	11.00	5.90	5.10	6.80	1.70	5.10	7.40	6.80	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 12:00 PM	31.00	3.70	5.10	9.00	3.90	5.10	9.70	9.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 12:15 PM	51.00	3.80	4.30	8.60	4.30	4.30	10.10	8.60	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 12:30 PM	13.00	4.40	3.60	9.50	5.90	3.60	7.30	9.50	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 12:45 PM	39.00	5.10	2.40	7.50	5.10	2.40	9.50	7.50	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 1:00 PM	9.00	3.50	2.10	7.10	5.00	2.10	9.40	7.10	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Retrieved from www.indianaharbordredge.com
on 8/15/2014 3:19 PM

US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 2014
(note: weather station malfunction between 7/1 and 7/15)

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)							Naphthalene (µg/m³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
7/16/14 1:15 PM	22.00	3.70	2.20	7.70	5.50	2.20	24.10	7.70	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 1:30 PM	23.00	5.70	2.90	7.50	4.60	2.90	8.60	7.50	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 1:45 PM	6.00	5.90	4.70	7.60	2.90	4.70	14.30	7.60	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 2:00 PM	39.00	5.60	3.10	7.40	4.30	3.10	24.40	7.40	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 2:15 PM	33.00	7.00	7.10	6.80	0.00	7.10	8.80	6.80	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 2:30 PM	24.00	7.70	5.00	6.90	1.90	5.00	7.90	6.90	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 2:45 PM	10.00	5.70	6.00	6.70	0.70	6.00	9.00	6.70	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 3:00 PM	21.00	5.80	5.00	7.50	2.50	5.00	12.60	7.50	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 3:15 PM	17.00	5.30	5.00	8.40	3.40	5.00	9.40	8.40	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 3:30 PM	43.00	6.90	6.80	7.20	0.40	6.80	8.10	7.20	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 3:45 PM	49.00	7.60	6.40	7.00	0.60	6.40	27.50	7.00	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 4:00 PM	16.00	6.30	4.10	7.10	3.00	4.10	7.90	7.10	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 4:15 PM	8.00	5.40	2.60	5.80	3.20	2.60	8.10	5.80	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 4:30 PM	15.00	6.30	-0.50	4.90	5.40	-0.50	6.00	4.90	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 4:45 PM	10.00	5.40	-1.10	5.30	6.40	-1.10	4.70	5.30	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 5:00 PM	49.00	5.20	0.00	4.10	4.10	0.00	11.70	4.10	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 5:15 PM	33.00	5.50	-1.20	2.50	3.70	-1.20	4.80	2.50	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 5:30 PM	16.00	4.50	-2.20	2.90	5.10	-2.20	11.80	2.90	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 5:45 PM	45.00	4.20	1.60	2.20	0.60	1.60	3.80	2.20	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 6:00 PM	75.00	3.30	-1.80	2.10	3.90	-1.80	4.50	2.10	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 6:15 PM	52.00	4.10	-1.80	2.30	4.10	-1.80	15.00	2.30	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 6:30 PM	43.00	3.30	-1.40	2.00	3.40	-1.40	4.70	2.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 6:45 PM	55.00	1.80	-0.50	1.90	2.40	-0.50	7.80	1.90	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 7:00 PM	48.00	3.00	-1.30	1.90	3.20	-1.30	5.10	1.90	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 7:15 PM	49.00	3.30	0.20	1.90	1.70	0.20	4.50	1.90	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 7:30 PM	59.00	1.70	0.00	1.90	0.00	0.00	5.30	1.90	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 7:45 PM	82.00	1.00	0.00	2.00	2.00	0.00	5.90	2.00	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 8:00 PM	73.00	2.00	-0.70	2.20	2.90	-0.70	5.90	2.20	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 8:15 PM	105.00	1.70	5.90	4.00	0.00	0.50	5.90	2.20	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 8:30 PM	137.00	2.30	8.80	5.90	0.00	9.40	8.80	2.90	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 8:45 PM	213.00	0.90	3.40	11.30	7.90	11.30	10.40	3.40	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 9:00 PM	255.00	1.40	4.80	7.60	2.80	7.60	14.90	4.80	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 9:15 PM	224.00	0.80	4.80	7.40	2.60	7.40	12.00	4.80	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 9:30 PM	216.00	1.30	3.40	7.60	4.20	7.60	6.70	3.40	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 9:45 PM	203.00	1.20	4.30	1.40	0.00	1.40	8.40	4.30	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 10:00 PM	186.00	0.80	5.20	4.30	0.00	4.30	9.70	5.20	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 10:15 PM	185.00	1.30	5.70	6.30	0.60	6.30	10.50	5.70	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 10:30 PM	208.00	1.50	7.00	3.70	0.00	3.70	10.70	7.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 10:45 PM	213.00	1.40	8.00	9.10	1.10	9.10	15.20	8.00	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 11:00 PM	217.00	1.10	8.70	11.80	3.10	11.80	16.50	8.70	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 11:15 PM	206.00	1.30	9.00	0.00	0.00	0.00	18.80	9.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 11:30 PM	192.00	1.10	10.70	16.60	5.90	16.60	19.40	10.70	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/14 11:45 PM	203.00	1.00	11.70	20.60	8.90	20.60	22.00	11.70	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 12:00 AM	201.00	1.00	11.70	12.80	1.10	12.80	20.20	11.70	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 12:15 AM	222.00	1.20	11.70	11.20	0.00	11.20	18.20	11.70	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 12:30 AM	212.00	0.80	12.70	12.30	0.00	12.30	17.60	12.70	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 12:45 AM	175.00	1.00	16.60	7.00	0.00	9.70	16.60	11.40	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 1:00 AM	216.00	0.80	11.70	10.60	0.00	10.60	16.20	11.70	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 1:15 AM	201.00	0.60	11.70	11.00	0.00	11.00	15.50	11.70	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 1:30 AM	233.00	0.90	12.70	12.10	0.00	12.10	17.20	12.70	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 1:45 AM	231.00	1.20	13.20	11.40	0.00	11.40	17.10	13.20	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 2:00 AM	151.00	1.30	16.60	7.90	0.00	12.80	16.60	13.50	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 2:15 AM	138.00	1.10	16.10	7.50	0.00	12.40	16.10	14.20	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 2:30 AM	144.00	0.80	17.00	8.70	0.00	13.20	17.00	15.30	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 2:45 AM	181.00	1.10	18.00	15.90	0.00	15.90	19.30	18.00	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 3:00 AM	168.00	1.20	21.40	9.20	0.00	18.00	21.40	20.80	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 3:15 AM	164.00	1.80	21.20	7.70	0.00	16.90	21.20	19.90	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 3:30 AM	164.00	1.50	23.60	7.00	0.00	19.70	23.60	18.10	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 3:45 AM	181.00	2.10	20.40	23.70	3.30	23.70	25.80	20.40	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 4:00 AM	186.00	2.00	21.20	27.70	6.50	27.70	29.40	21.20	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 4:15 AM	211.00	1.80	21.20	22.70	1.50	22.70	26.30	21.20	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 4:30 AM	196.00	1.90	24.40	32.90	8.50	32.90	34.40	24.40	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 4:45 AM	200.00	1.70	22.80	28.30	5.50	28.30	23.40	22.80	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 5:00 AM	192.00	1.50	24.70	15.90	0.00	15.90	21.30	24.70	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 5:15 AM	203.00	1.80	21.80	21.30	0.00	21.30	24.80	21.80	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 5:30 AM	210.00	2.00	21.30	21.20	0.00	21.20	22.40	21.30	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 5:45 AM	210.00	1.30	17.20	16.00	0.00	16.00	22.90	17.20	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 6:00 AM	186.00	2.20	16.50	11.30	0.00	11.30	17.10	16.50	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 6:15 AM	182.00	1.30	16.80	10.80	0.00	10.80	17.30	16.80	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 6:30 AM	208.00	1.80	17.10	12.30	0.00	12.30	17.70	17.10	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 6:45 AM	175.00	1.90	17.70	5.60	0.00	8.40	17.70	15.80	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 7:00 AM	200.00	1.70	15.60	8.00	0.00	8.00	15.50	15.60	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 7:15 AM	203.00	2.70	14.60	9.70	0.00	9.70	16.40	14.60	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 7:30 AM	213.00	2.20	15.80	9.90	0.00	9.90	25.20	15.80	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 7:45 AM	214.00	1.50	16.60	8.70	0.00	8.70	15.10	16.60	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 8:00 AM	208.00	2.30	15.60	10.50	0.00	10.50	20.60	15.60	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 8:15 AM	216.00	1.90	15.20	10.40	0.00	10.40	12.70	15.20	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 8:30 AM	209.00	2.80	12.80	0.00	0.00	0.00	13.00	12.80	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 8:45 AM	202.00	2.70	12.00	8.10	0.00	8.10	11.40	12.00	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 9:00 AM	215.00	2.10	10.40	8.50	0.00	8.50	11.20	10.40	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 9:15 AM	189.00	4.00	9.10	4.20	0.00	4.20	11.20	9.10	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 9:30 AM	186.00	3.60	9.30	5.40	0.00	5.40	10.70	9.30	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 9:45 AM	194.00	2.60	8.80	6.10	0.00	6.10	15.30	8.80	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 10:00 AM	182.00	2.70	8.10	4.90	0.00	4.90	11.00	8.10	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 10:15 AM	200.00	2.70	6.00	2.70	0.00	2.70	8.50	6.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 10:30 AM	175.00	2.10	7.80	4.00	0.00	0.20	7.80	5.20	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 10:45 AM	214.00	2.90	5.50	2.40	0.00	2.40	7.80	5.50	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 11:00 AM	177.00	3.20	55.60	6.30	0.00	2.20	55.60	6.20	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 11:15 AM	199.00	3.50	6.80	2.40	0.00	2.40	8.90	6.80	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 11:30 AM	158.00	1.80	10.50	5.80	0.00	4.70	10.50	6.60	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 11:45 AM	175.00	3.30	12.40	5.00	0.00	5.30	12.40	6.70	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 12:00 PM	182.00	3.80	6.70	5.80	0.00	5.80	25.50	6.70	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 12:15 PM	165.00	2.60	55.90	3.90	0.00	3.40	55.90	7.60	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 12:30 PM	269.00	2.00	7.40	5.50	0.00	5.50	10.50	7.40	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 12:45 PM	170.00	2.30	11.00	4.30	0.00	6.70	11.00	7.70	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 1:00 PM	219.00	2.40	7.50	2.70	0.00	2.70	10.60	7.50	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 1:15 PM	262.00	1.80	7.50	3.70	0.00	3.70	13.80	7.50	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 1:30 PM	228.00	2.50	6.80	2.50	0.00	2.50	10.90	6.80	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 1:45 PM	241.00	1.70	7.50	2.80	0.00	2.80	12.10	7.50	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 2:00 PM	250.00	3.10	7.60	2.40	0.00	2.40	12.20	7.60	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 2:15 PM	333.00	0.90	5.10	19.10	14.00	2.00	19.10	7.30	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Retrieved from www.indianaharbordredge.com
on 8/15/2014 3:19 PM

US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 2014
(note: weather station malfunction between 7/1 and 7/15)

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)							Naphthalene (µg/m³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
7/17/14 2:30 PM	358.00	1.40	5.90	0.00	0.00	3.70	0.00	8.20	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 2:45 PM	137.00	2.80	11.80	6.10	0.00	3.00	11.80	7.70	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 3:00 PM	74.00	5.30	2.60	7.70	5.10	2.60	0.00	7.70	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 3:15 PM	90.00	2.80	11.30	5.50	0.00	3.70	11.30	8.60	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 3:30 PM	60.00	2.70	7.90	8.30	0.40	7.90	11.70	8.30	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 3:45 PM	77.00	2.90	11.70	15.70	4.00	11.70	20.20	15.70	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 4:00 PM	75.00	4.40	7.60	14.20	6.60	7.60	22.80	14.20	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 4:15 PM	82.00	3.70	9.30	18.00	8.70	9.30	27.30	18.00	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 4:30 PM	61.00	4.30	9.50	16.30	6.80	9.50	29.10	16.30	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 4:45 PM	68.00	3.90	8.00	26.20	18.20	8.00	30.50	26.20	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 5:00 PM	89.00	2.70	8.30	32.10	23.80	8.30	43.30	32.10	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 5:15 PM	102.00	2.80	32.10	6.90	0.00	8.30	32.10	30.40	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 5:30 PM	65.00	3.30	49.40	24.10	0.00	49.40	33.40	24.10	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 5:45 PM	96.00	2.70	19.20	12.00	0.00	27.50	19.20	20.50	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 6:00 PM	82.00	3.70	12.20	30.10	17.90	12.20	54.90	30.10	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 6:15 PM	86.00	3.70	13.80	42.90	29.10	13.80	77.80	42.90	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 6:30 PM	71.00	4.70	15.00	46.30	31.30	15.00	63.20	46.30	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 6:45 PM	72.00	4.40	18.20	24.10	5.90	18.20	31.90	24.10	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 7:00 PM	104.00	4.20	29.70	8.70	0.00	12.50	29.70	28.00	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 7:15 PM	76.00	4.50	18.00	22.20	4.20	18.00	23.60	22.20	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 7:30 PM	67.00	4.50	25.10	24.40	0.00	25.10	29.70	24.40	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 7:45 PM	61.00	5.40	13.40	30.00	16.60	13.40	52.10	30.00	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 8:00 PM	66.00	5.40	23.00	48.60	25.60	23.00	55.60	48.60	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 8:15 PM	84.00	3.60	18.00	29.20	11.20	18.00	32.10	29.20	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 8:30 PM	87.00	2.80	20.10	29.40	9.30	20.10	28.10	29.40	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 8:45 PM	69.00	3.20	11.70	34.60	22.90	11.70	25.10	34.60	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 9:00 PM	91.00	2.90	26.70	12.40	0.00	25.60	26.70	27.00	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 9:15 PM	101.00	2.40	27.00	12.40	0.00	25.60	27.00	27.00	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 9:30 PM	94.00	2.50	29.90	9.60	0.00	12.40	29.90	27.40	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 9:45 PM	108.00	2.70	47.60	9.00	0.00	8.70	47.60	47.20	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 10:00 PM	117.00	2.50	33.40	10.20	0.00	6.60	33.40	32.70	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 10:15 PM	122.00	1.90	27.80	6.40	0.00	4.50	27.80	27.80	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 10:30 PM	137.00	1.60	27.90	11.80	0.00	4.80	27.90	22.90	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 10:45 PM	145.00	1.80	26.40	9.80	0.00	6.40	26.40	25.60	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 11:00 PM	153.00	2.50	29.20	7.20	0.00	8.10	29.20	27.30	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 11:15 PM	158.00	2.20	27.10	10.60	0.00	9.70	27.10	30.50	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 11:30 PM	167.00	1.60	36.50	14.10	0.00	39.40	36.50	31.90	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/14 11:45 PM	164.00	2.00	31.60	12.20	0.00	34.00	31.60	35.20	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 12:00 AM	172.00	2.10	31.70	12.60	0.00	29.90	31.70	35.80	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 12:15 AM	165.00	2.10	30.80	12.80	0.00	25.50	30.80	34.40	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 12:30 AM	162.00	2.00	35.50	14.70	0.00	30.50	35.50	39.10	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 12:45 AM	155.00	1.80	39.10	16.50	0.00	37.90	39.10	38.70	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 1:00 AM	174.00	2.60	31.70	13.50	0.00	27.90	31.70	33.30	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 1:15 AM	167.00	2.90	31.20	13.30	0.00	19.80	31.20	31.00	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 1:30 AM	173.00	1.80	31.60	12.20	0.00	20.10	31.60	30.70	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 1:45 AM	172.00	2.10	29.70	11.10	0.00	17.60	29.70	30.70	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 2:00 AM	167.00	2.10	27.90	10.40	0.00	15.60	27.90	30.30	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 2:15 AM	190.00	2.00	27.70	16.70	0.00	16.70	27.60	27.70	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 2:30 AM	176.00	2.10	24.30	9.20	0.00	16.10	24.30	27.70	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 2:45 AM	192.00	1.80	26.50	13.70	0.00	13.70	22.10	26.50	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 3:00 AM	185.00	1.40	26.00	12.80	0.00	12.80	21.60	26.00	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 3:15 AM	181.00	1.90	24.70	12.70	0.00	12.70	21.20	24.70	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 3:30 AM	184.00	1.70	28.60	12.90	0.00	12.90	22.00	28.60	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 3:45 AM	179.00	2.50	22.40	11.20	0.00	12.50	22.40	27.10	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 4:00 AM	184.00	2.20	25.90	15.60	0.00	15.60	22.40	25.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 4:15 AM	191.00	1.70	24.70	0.00	0.00	0.00	23.50	24.70	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 4:30 AM	207.00	1.20	24.20	17.90	0.00	17.90	23.70	24.20	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 4:45 AM	178.00	1.20	23.00	9.60	0.00	16.00	23.00	24.80	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 5:00 AM	174.00	1.80	21.80	11.70	0.00	14.80	21.80	25.30	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 5:15 AM	180.00	1.50	28.60	14.60	0.00	14.60	21.60	28.60	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 5:30 AM	182.00	1.90	26.10	16.00	0.00	16.00	22.40	26.10	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 5:45 AM	196.00	1.40	23.40	18.20	0.00	18.20	23.00	23.40	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 6:00 AM	176.00	2.10	23.20	10.00	0.00	0.00	23.20	22.30	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 6:15 AM	179.00	1.80	23.10	12.70	0.00	18.80	23.10	26.20	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 6:30 AM	0.00	0.00	0.00	0.00	0.00	23.00	47.20	25.80	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 6:45 AM	182.00	2.30	26.70	28.00	1.30	28.00	23.10	26.70	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 7:00 AM	173.00	1.80	22.90	11.50	0.00	18.30	22.90	24.30	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 7:15 AM	187.00	1.60	22.00	20.20	0.00	20.20	22.90	22.00	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 7:30 AM	193.00	1.80	21.20	20.30	0.00	20.30	22.20	21.20	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 7:45 AM	185.00	1.90	18.80	22.70	3.90	22.70	21.80	18.80	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 8:00 AM	200.00	2.70	17.60	20.00	2.40	20.00	23.30	17.60	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 8:15 AM	200.00	2.60	21.30	28.50	7.20	28.50	22.20	21.30	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 8:30 AM	203.00	2.60	18.50	21.00	2.50	21.00	20.20	18.50	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 8:45 AM	203.00	3.50	17.30	21.00	3.70	21.00	20.50	17.30	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 9:00 AM	202.00	3.00	16.10	17.70	1.60	17.70	17.60	16.10	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 9:15 AM	186.00	3.50	15.50	12.80	0.00	12.80	17.30	15.50	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 9:30 AM	182.00	2.60	13.90	11.30	0.00	11.30	11.90	13.90	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 9:45 AM	189.00	3.80	11.20	8.00	0.00	8.00	12.20	11.20	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 10:00 AM	174.00	2.70	11.10	7.90	0.00	0.00	11.10	10.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 10:15 AM	194.00	2.50	11.30	13.70	2.40	13.70	11.40	11.30	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 10:30 AM	190.00	4.40	10.30	12.70	2.40	12.70	26.00	10.30	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 10:45 AM	175.00	2.20	10.20	7.40	0.00	12.60	10.20	9.80	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 11:00 AM	209.00	3.80	9.30	5.90	0.00	5.90	8.60	9.30	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 11:15 AM	204.00	4.10	7.80	8.60	0.80	8.60	8.00	7.80	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 11:30 AM	223.00	2.10	7.80	5.20	0.00	5.20	8.80	7.80	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 11:45 AM	225.00	2.40	8.50	6.40	0.00	6.40	8.40	8.50	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 12:00 PM	137.00	2.20	10.50	6.20	0.00	8.70	10.50	9.00	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 12:15 PM	211.00	2.80	9.40	6.60	0.00	6.60	8.90	9.40	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 12:30 PM	165.00	3.80	10.50	7.30	0.00	10.30	10.50	9.90	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 12:45 PM	116.00	3.60	10.50	6.70	0.00	0.00	10.50	8.90	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 1:00 PM	126.00	4.10	20.30	6.90	0.00	11.20	20.30	9.20	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 1:15 PM	164.00	5.20	11.50	7.10	0.00	11.70	11.50	8.90	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 1:30 PM	155.00	2.60	12.10	8.10	0.00	14.80	12.10	9.70	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 1:45 PM	149.00	4.50	10.60	7.60	0.00	14.60	10.60	9.50	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 2:00 PM	127.00	4.80	17.80	8.20	0.00	19.60	17.80	10.10	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 2:15 PM	166.00	5.00	16.60	8.90	0.00	23.40	16.60	10.20	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 2:30 PM	145.00	4.70	15.40	9.50	0.00	14.60	15.40	10.10	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 2:45 PM	160.00	3.90	29.00	8.80	0.00	11.20	29.00	27.00	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 3:00 PM	189.00	2.70	12.30	22.00	9.70	22.00	26.20	12.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 3:15 PM	167.00	4.60	19.90	8.70	0.00	19.10	19.90	11.70	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 3:30 PM	128.00	4.10	17.50	8.80	0.00	15.10	17.50	11.70	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Retrieved from www.indianaharbordredge.com
on 8/15/2014 3:19 PM

US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 2014
(note: weather station malfunction between 7/1 and 7/15)

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)							Naphthalene (µg/m³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
7/18/14 3:45 PM	139.00	5.40	182.70	8.30	0.00	9.60	182.70	11.30	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 4:00 PM	169.00	3.30	17.30	8.60	0.00	11.00	17.30	10.70	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 4:15 PM	160.00	3.80	16.00	8.40	0.00	12.80	16.00	10.30	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 4:30 PM	145.00	4.00	15.20	8.50	0.00	9.80	15.20	10.10	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 4:45 PM	114.00	5.40	15.50	9.20	0.00	12.80	15.50	10.50	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 5:00 PM	161.00	4.90	14.20	8.50	0.00	15.90	14.20	9.60	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 5:15 PM	154.00	4.90	13.50	8.10	0.00	9.20	13.50	9.10	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 5:30 PM	114.00	4.90	14.20	8.30	0.00	12.60	14.20	9.10	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 5:45 PM	123.00	4.70	12.80	8.30	0.00	7.80	12.80	9.50	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 6:00 PM	161.00	5.10	13.80	8.40	0.00	8.30	13.80	8.80	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 6:15 PM	145.00	2.30	15.10	8.40	0.00	8.70	15.10	9.40	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 6:30 PM	137.00	3.70	13.80	8.20	0.00	13.50	13.80	9.40	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 6:45 PM	158.00	4.20	13.60	7.40	0.00	7.30	13.60	8.70	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 7:00 PM	167.00	4.00	18.10	6.10	0.00	5.30	18.10	7.90	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 7:15 PM	147.00	4.00	12.70	6.80	0.00	7.20	12.70	7.90	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 7:30 PM	155.00	3.20	62.00	8.60	0.00	9.30	62.00	8.90	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 7:45 PM	152.00	2.50	14.70	9.60	0.00	11.20	14.70	8.90	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 8:00 PM	164.00	2.00	16.20	10.10	0.00	0.00	16.20	10.10	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 8:15 PM	149.00	2.30	18.10	10.90	0.00	16.10	18.10	10.90	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 8:30 PM	149.00	2.30	21.40	11.70	0.00	17.70	21.40	11.70	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 8:45 PM	158.00	1.60	22.70	10.90	0.00	0.00	22.70	12.20	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 9:00 PM	155.00	1.50	22.00	9.40	0.00	16.40	22.00	12.90	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 9:15 PM	153.00	2.00	22.10	9.20	0.00	17.30	22.10	14.00	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 9:30 PM	155.00	1.50	25.50	10.90	0.00	17.20	25.50	15.20	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 9:45 PM	154.00	1.40	25.80	11.20	0.00	18.90	25.80	16.90	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 10:00 PM	151.00	1.70	29.50	11.60	0.00	20.40	29.50	17.70	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 10:15 PM	154.00	1.70	31.40	13.50	0.00	28.30	31.40	18.70	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 10:30 PM	166.00	1.40	36.60	11.30	0.00	39.40	36.60	23.60	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 10:45 PM	172.00	1.70	39.90	15.70	0.00	46.00	39.90	27.90	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 11:00 PM	164.00	1.30	38.70	17.70	0.00	47.20	38.70	33.20	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 11:15 PM	147.00	1.40	42.20	19.80	0.00	46.80	42.20	34.00	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 11:30 PM	162.00	1.30	48.20	20.90	0.00	41.20	48.20	33.20	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/14 11:45 PM	140.00	1.10	42.10	18.30	0.00	47.40	42.10	30.00	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 12:00 AM	141.00	1.70	41.30	17.70	0.00	53.30	41.30	31.00	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 12:15 AM	150.00	1.80	46.70	16.50	0.00	40.90	46.70	30.40	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 12:30 AM	167.00	1.30	47.40	20.40	0.00	39.90	47.40	30.40	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 12:45 AM	161.00	1.50	50.00	19.60	0.00	45.70	50.00	36.40	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 1:00 AM	177.00	1.40	45.50	18.20	0.00	69.70	45.50	43.20	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 1:15 AM	219.00	0.30	42.00	61.20	19.20	61.20	46.10	42.00	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 1:30 AM	168.00	1.70	65.40	29.80	0.00	48.40	65.40	50.30	29.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 1:45 AM	161.00	1.90	77.30	30.40	0.00	46.40	77.30	55.20	30.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 2:00 AM	157.00	2.10	55.80	30.30	0.00	60.50	55.80	51.70	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 2:15 AM	159.00	1.80	49.70	27.00	0.00	35.90	49.70	44.20	27.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 2:30 AM	163.00	1.40	45.20	20.50	0.00	31.80	45.20	42.50	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 2:45 AM	165.00	2.20	43.70	19.20	0.00	33.90	43.70	48.50	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 3:00 AM	164.00	2.10	41.30	18.20	0.00	35.70	41.30	54.90	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 3:15 AM	163.00	1.90	42.90	16.40	0.00	36.30	42.90	54.80	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 3:30 AM	185.00	2.40	41.40	34.70	0.00	34.70	58.30	41.40	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 3:45 AM	182.00	2.00	39.50	46.70	7.20	46.70	56.80	39.50	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 4:00 AM	188.00	1.70	40.00	35.00	0.00	35.00	49.60	40.00	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 4:15 AM	201.00	1.40	40.90	34.90	0.00	34.90	47.00	40.90	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 4:30 AM	195.00	1.30	40.50	34.40	0.00	34.40	50.70	40.50	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 4:45 AM	205.00	1.30	42.70	33.90	0.00	33.90	47.20	42.70	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 5:00 AM	185.00	1.60	41.10	32.60	0.00	32.60	45.30	41.10	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 5:15 AM	184.00	1.90	40.00	32.50	0.00	32.50	46.90	40.00	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 5:30 AM	191.00	1.60	41.50	33.50	0.00	33.50	45.70	41.50	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 5:45 AM	197.00	1.30	41.50	32.60	0.00	32.60	46.90	41.50	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 6:00 AM	188.00	1.20	42.00	35.00	0.00	35.00	48.00	42.00	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 6:15 AM	201.00	1.40	47.00	34.20	0.00	34.20	48.60	47.00	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 6:30 AM	185.00	0.90	48.60	36.60	0.00	36.60	48.40	48.60	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 6:45 AM	201.00	0.90	46.20	32.10	0.00	32.10	48.50	46.20	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 7:00 AM	215.00	2.00	45.00	31.70	0.00	31.70	46.90	45.00	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 7:15 AM	225.00	2.10	43.50	31.30	0.00	31.30	47.50	43.50	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 7:30 AM	228.00	2.10	40.80	0.00	0.00	0.00	40.10	40.80	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 7:45 AM	214.00	1.90	37.10	28.80	0.00	28.80	37.80	37.10	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 8:00 AM	246.00	2.10	36.30	29.10	0.00	29.10	37.40	36.30	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 8:15 AM	269.00	0.90	34.40	27.60	0.00	27.60	36.50	34.40	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 8:30 AM	332.00	0.50	16.20	40.10	23.90	30.30	40.10	37.90	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 8:45 AM	11.00	0.50	32.30	35.60	3.30	32.30	38.60	35.60	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 9:00 AM	7.00	0.70	35.80	34.50	0.00	35.80	38.70	34.50	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 9:15 AM	214.00	0.50	33.70	41.80	8.10	41.80	38.40	33.70	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 9:30 AM	41.00	1.00	34.80	33.10	0.00	34.80	39.30	33.10	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 9:45 AM	72.00	1.70	33.70	29.50	0.00	33.70	40.00	29.50	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 10:00 AM	59.00	2.40	37.50	28.70	0.00	37.50	32.80	28.70	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 10:15 AM	12.00	1.50	44.40	28.90	0.00	44.40	36.20	28.90	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 10:30 AM	64.00	2.60	51.60	33.60	0.00	51.60	35.40	33.60	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 10:45 AM	69.00	2.90	49.00	19.50	0.00	49.00	31.20	19.50	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 11:00 AM	76.00	2.80	46.00	25.60	0.00	46.00	35.50	25.60	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 11:15 AM	98.00	1.80	23.80	13.90	0.00	50.60	23.80	30.40	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 11:30 AM	110.00	3.10	20.40	9.50	0.00	44.60	20.40	22.10	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 11:45 AM	116.00	3.20	19.50	16.30	0.00	34.10	19.50	17.10	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 12:00 PM	135.00	2.30	16.20	16.00	0.00	20.40	16.20	22.90	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 12:15 PM	28.00	4.70	21.60	15.20	0.00	21.60	12.30	15.20	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 12:30 PM	27.00	5.40	16.30	12.30	0.00	16.30	11.40	12.30	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 12:45 PM	29.00	3.80	19.20	12.40	0.00	19.20	10.60	12.40	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 1:00 PM	21.00	4.70	21.20	15.50	0.00	21.20	10.20	15.50	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 1:15 PM	19.00	5.30	20.20	18.50	0.00	20.20	10.50	18.50	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 1:30 PM	22.00	4.70	20.50	18.70	0.00	20.50	15.30	18.70	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 1:45 PM	10.00	5.00	26.10	20.30	0.00	26.10	21.70	20.30	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 2:00 PM	15.00	5.20	22.80	19.60	0.00	22.80	20.00	19.60	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 2:15 PM	24.00	5.40	18.90	18.70	0.00	18.90	12.40	18.70	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 2:30 PM	25.00	4.80	14.80	19.80	5.00	14.80	19.70	19.80	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 2:45 PM	15.00	2.80	7.80	16.60	8.80	7.80	17.20	16.60	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 3:00 PM	74.00	3.80	6.90	16.10	9.20	6.90	20.80	16.10	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 3:15 PM	110.00	4.20	13.30	8.90	0.00	8.40	13.30	15.10	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 3:30 PM	93.00	3.40	21.80	8.60	0.00	24.70	21.80	17.10	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 3:45 PM	80.00	3.90	20.00	19.00	0.00	20.00	16.90	19.00	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 4:00 PM	90.00	2.80	22.50	12.30	0.00	21.70	22.50	19.40	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 4:15 PM	134.00	3.70	0.00	17.10	0.00	38.80	0.00	17.30	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 4:30 PM	113.00	3.80	13.10	9.80	0.00	8.40	13.10	13.00	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 4:45 PM	114.00	3.40	10.20	8.80	0.00	10.20	10.20	13.10	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Retrieved from www.indianaharbordredge.com
on 8/15/2014 3:19 PM

US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 2014
(note: weather station malfunction between 7/1 and 7/15)

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)							Naphthalene (µg/m³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
7/19/14 5:00 PM	75.00	3.90	25.70	17.50	0.00	25.70	12.50	17.50	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 5:15 PM	121.00	4.10	14.50	13.00	0.00	28.50	14.50	16.30	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 5:30 PM	74.00	1.60	29.90	19.20	0.00	29.90	15.50	19.20	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 5:45 PM	101.00	1.70	12.60	13.20	0.60	18.50	12.60	16.10	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 6:00 PM	90.00	2.20	12.80	10.30	0.00	11.50	12.80	17.10	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 6:15 PM	86.00	2.50	18.90	17.90	0.00	18.90	13.50	17.90	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 6:30 PM	74.00	3.20	19.40	19.20	0.00	19.40	15.80	19.20	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 6:45 PM	95.00	1.60	15.80	9.10	0.00	20.60	15.80	19.60	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 7:00 PM	107.00	1.80	16.00	9.10	0.00	19.80	16.00	20.60	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 7:15 PM	75.00	2.40	24.30	21.40	0.00	24.30	16.70	21.40	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 7:30 PM	120.00	2.40	19.60	9.10	0.00	41.70	19.60	24.60	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 7:45 PM	108.00	2.10	19.90	9.10	0.00	50.00	19.90	23.40	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 8:00 PM	117.00	3.30	21.00	9.10	0.00	73.60	21.00	22.50	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 8:15 PM	115.00	2.40	19.90	9.10	0.00	29.40	19.90	21.30	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 8:30 PM	120.00	2.70	20.30	9.10	0.00	25.40	20.30	20.70	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 8:45 PM	133.00	2.10	22.40	9.10	0.00	15.50	22.40	23.80	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 9:00 PM	98.00	1.00	18.60	9.10	0.00	14.80	18.60	21.50	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 9:15 PM	109.00	1.30	22.40	9.10	0.00	12.20	22.40	24.20	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 9:30 PM	85.00	1.70	14.90	25.30	10.40	14.90	22.10	25.30	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 9:45 PM	128.00	1.90	25.00	9.10	0.00	14.30	25.00	28.80	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 10:00 PM	123.00	1.30	31.80	9.10	0.00	15.00	31.80	33.20	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 10:15 PM	122.00	2.20	28.50	9.10	0.00	14.80	28.50	34.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 10:30 PM	190.00	0.80	26.70	14.80	0.00	14.80	25.90	26.70	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 10:45 PM	211.00	1.20	31.70	18.20	0.00	18.20	29.50	31.70	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 11:00 PM	189.00	1.30	36.70	15.60	0.00	15.60	33.80	36.70	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 11:15 PM	174.00	1.70	29.70	9.10	0.00	15.90	29.70	31.20	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 11:30 PM	167.00	1.70	30.70	9.10	0.00	24.80	30.70	32.90	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/14 11:45 PM	206.00	1.10	32.90	24.80	0.00	24.80	39.30	32.90	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 12:00 AM	252.00	1.20	41.80	48.20	6.40	48.20	44.00	41.80	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 12:15 AM	261.00	1.10	41.80	38.60	0.00	38.60	41.90	41.80	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 12:30 AM	267.00	0.80	39.10	36.10	0.00	36.10	37.20	39.10	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 12:45 AM	231.00	0.60	42.10	39.40	0.00	39.40	42.30	42.10	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 1:00 AM	168.00	0.60	43.80	9.10	0.00	47.40	43.80	46.60	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 1:15 AM	223.00	0.50	48.00	49.20	1.20	49.20	48.30	48.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 1:30 AM	167.00	0.90	48.80	9.10	0.00	50.60	48.80	48.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 1:45 AM	220.00	0.30	50.40	52.80	2.40	52.80	57.40	50.40	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 2:00 AM	154.00	1.50	61.50	9.10	0.00	53.90	61.50	58.50	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 2:15 AM	164.00	1.20	66.10	9.10	0.00	49.20	66.10	66.90	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 2:30 AM	168.00	1.30	67.90	9.10	0.00	51.10	67.90	71.70	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 2:45 AM	175.00	0.80	70.10	9.10	0.00	57.10	70.10	76.90	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 3:00 AM	230.00	0.30	63.20	51.90	0.00	51.90	62.90	63.20	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 3:15 AM	229.00	1.00	63.10	50.50	0.00	50.50	62.00	63.10	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 3:30 AM	280.00	0.70	9.10	61.60	52.50	55.00	61.60	61.90	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 3:45 AM	196.00	0.40	62.10	50.60	0.00	50.60	61.70	62.10	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 4:00 AM	180.00	0.80	61.70	43.00	0.00	43.00	62.20	61.70	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 4:15 AM	204.00	0.90	64.70	43.50	0.00	43.50	68.60	64.70	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 4:30 AM	195.00	1.00	65.50	50.70	0.00	50.70	73.90	65.50	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 4:45 AM	203.00	1.20	69.80	51.40	0.00	51.40	75.70	69.80	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 5:00 AM	208.00	1.10	69.70	45.00	0.00	45.00	76.00	69.70	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 5:15 AM	195.00	0.90	82.10	46.50	0.00	46.50	75.90	82.10	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 5:30 AM	201.00	1.20	79.80	46.60	0.00	46.60	75.90	79.80	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 5:45 AM	198.00	1.00	77.30	44.20	0.00	44.20	75.90	77.30	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 6:00 AM	226.00	1.40	75.50	44.30	0.00	44.30	75.90	75.50	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 6:15 AM	212.00	1.40	69.10	44.60	0.00	44.60	75.90	69.10	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 6:30 AM	220.00	1.50	70.20	43.80	0.00	43.80	75.90	70.20	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 6:45 AM	203.00	1.20	66.10	43.30	0.00	43.30	75.90	66.10	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 7:00 AM	174.00	1.20	75.90	9.10	0.00	43.10	75.90	63.10	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 7:15 AM	183.00	1.30	64.30	47.50	0.00	47.50	75.90	64.30	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 7:30 AM	189.00	1.40	54.30	43.20	0.00	43.20	75.90	54.30	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 7:45 AM	206.00	1.10	50.20	37.20	0.00	37.20	75.90	50.20	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 8:00 AM	190.00	1.00	52.00	37.50	0.00	37.50	75.90	52.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 8:15 AM	230.00	1.40	49.60	36.40	0.00	36.40	75.90	49.60	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 8:30 AM	230.00	1.50	49.10	36.10	0.00	36.10	75.90	49.10	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 8:45 AM	249.00	1.10	50.70	40.10	0.00	40.10	75.90	50.70	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 9:00 AM	240.00	1.60	45.50	42.20	0.00	42.20	75.90	45.50	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 9:15 AM	240.00	1.30	43.00	33.70	0.00	33.70	75.90	43.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 9:30 AM	239.00	1.30	43.00	35.80	0.00	35.80	75.90	43.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 9:45 AM	288.00	1.70	9.10	75.90	66.80	35.40	75.90	37.50	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 10:00 AM	273.00	1.70	9.10	75.90	66.80	35.30	75.90	34.80	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 10:15 AM	267.00	1.20	30.30	31.60	1.30	31.60	75.90	30.30	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 10:30 AM	189.00	0.40	21.40	20.90	0.00	20.90	75.90	21.40	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 10:45 AM	211.00	1.30	13.40	19.50	6.10	19.50	75.90	13.40	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 11:00 AM	215.00	1.00	13.40	17.00	3.60	17.00	75.90	13.40	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 11:15 AM	197.00	2.40	13.40	15.20	1.80	15.20	75.90	13.40	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 11:30 AM	247.00	1.80	12.50	13.80	1.30	13.80	75.90	12.50	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 11:45 AM	78.00	1.60	13.80	11.80	0.00	13.80	75.90	11.80	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 12:00 PM	0.00	0.00	0.00	0.00	0.00	14.40	75.90	10.70	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 12:15 PM	118.00	3.00	75.90	9.10	0.00	16.80	75.90	11.30	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 12:30 PM	130.00	2.30	75.90	9.10	0.00	16.80	75.90	11.30	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 12:45 PM	141.00	3.00	75.90	9.10	0.00	16.50	75.90	10.70	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 1:00 PM	147.00	3.50	75.90	9.10	0.00	16.50	75.90	10.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 1:15 PM	147.00	3.00	75.90	9.10	0.00	24.80	75.90	9.60	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 1:30 PM	195.00	1.70	12.60	20.60	8.00	20.60	75.90	12.60	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 1:45 PM	167.00	2.00	15.60	9.10	0.00	20.60	15.60	48.10	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 2:00 PM	120.00	3.40	18.90	13.00	0.00	14.60	18.90	13.20	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 2:15 PM	187.00	2.00	10.20	23.90	13.70	23.90	18.30	10.20	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 2:30 PM	163.00	2.00	11.40	9.90	0.00	11.40	11.40	10.40	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 2:45 PM	107.00	2.90	12.10	14.70	2.60	12.40	12.10	10.90	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 3:00 PM	93.00	2.40	10.50	12.90	2.40	17.90	10.50	10.70	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 3:15 PM	87.00	2.00	21.20	9.60	0.00	21.20	17.00	9.60	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 3:30 PM	95.00	4.70	17.20	11.10	0.00	21.50	17.20	10.30	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 3:45 PM	90.00	2.00	17.00	14.80	0.00	19.80	17.00	18.00	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 4:00 PM	92.00	2.50	19.70	15.60	0.00	23.10	19.70	16.70	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 4:15 PM	76.00	3.70	27.50	22.40	0.00	27.50	19.30	22.40	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 4:30 PM	99.00	2.60	22.90	18.50	0.00	29.00	22.90	18.80	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 4:45 PM	72.00	3.80	26.30	21.30	0.00	26.30	23.70	21.30	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 5:00 PM	123.00	3.90	25.90	20.10	0.00	22.70	25.90	26.80	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 5:15 PM	85.00	3.30	23.30	35.10	11.80	23.30	29.90	35.10	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 5:30 PM	70.00	3.10	24.10	31.10	7.00	24.10	31.50	31.10	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 5:45 PM	112.00	3.90	37.70	19.90	0.00	25.40	37.70	35.80	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 6:00 PM	119.00	3.60	32.40	21.60	0.00	32.60	32.40	32.60	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Retrieved from www.indianaharbordredge.com
on 8/15/2014 3:19 PM

US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 2014
(note: weather station malfunction between 7/1 and 7/15)

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)							Naphthalene (µg/m³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
7/20/14 6:15 PM	116.00	3.10	32.90	23.40	0.00	28.80	32.90	30.10	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 6:30 PM	121.00	3.60	46.70	22.30	0.00	26.90	46.70	49.10	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 6:45 PM	110.00	3.60	30.70	22.60	0.00	26.30	30.70	49.40	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 7:00 PM	108.00	2.60	45.50	20.30	0.00	23.10	45.50	49.30	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 7:15 PM	49.00	3.70	29.00	32.50	3.50	29.00	34.60	32.50	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 7:30 PM	102.00	0.80	35.70	21.80	0.00	30.50	35.70	30.70	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 7:45 PM	71.00	1.30	26.90	35.60	8.70	26.90	34.00	35.60	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 8:00 PM	151.00	0.60	39.80	26.20	0.00	25.50	39.80	42.60	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 8:15 PM	166.00	0.60	45.90	32.00	0.00	29.80	45.90	51.70	32.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 8:30 PM	160.00	1.10	52.10	37.30	0.00	32.80	52.10	58.60	37.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 8:45 PM	168.00	0.90	47.00	40.00	0.00	35.00	47.00	55.40	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 9:00 PM	148.00	1.30	38.00	32.50	0.00	36.00	38.00	56.30	32.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 9:15 PM	164.00	0.90	44.00	29.10	0.00	39.40	44.00	44.40	29.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 9:30 PM	199.00	1.30	39.40	38.90	0.00	38.90	46.30	39.40	38.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 9:45 PM	202.00	1.10	51.50	59.00	7.50	59.00	64.40	51.50	28.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 10:00 PM	199.00	1.10	45.80	64.00	18.20	64.00	66.30	45.80	34.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 10:15 PM	211.00	0.80	38.00	51.10	13.10	51.10	62.90	38.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 10:30 PM	174.00	1.00	47.50	14.50	0.00	31.90	47.50	28.90	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 10:45 PM	170.00	1.20	35.70	14.80	0.00	27.30	35.70	27.70	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 11:00 PM	188.00	1.20	28.30	25.40	0.00	25.40	30.50	28.30	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 11:15 PM	201.00	1.30	29.00	26.10	0.00	26.10	30.20	29.00	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 11:30 PM	201.00	1.40	32.80	26.70	0.00	26.70	31.50	32.80	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/14 11:45 PM	200.00	1.50	29.20	22.50	0.00	22.50	36.40	29.20	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 12:00 AM	198.00	1.20	34.10	23.80	0.00	23.80	35.80	34.10	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 12:15 AM	193.00	1.10	36.10	27.40	0.00	27.40	33.40	36.10	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 12:30 AM	172.00	1.40	40.30	15.20	0.00	29.40	40.30	36.50	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 12:45 AM	194.00	1.30	36.80	30.20	0.00	30.20	41.60	36.80	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 1:00 AM	182.00	1.00	39.90	39.80	0.00	39.80	53.10	39.90	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 1:15 AM	169.00	1.10	57.80	20.40	0.00	41.10	57.80	44.10	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 1:30 AM	229.00	1.00	46.70	50.00	3.30	50.00	57.80	46.70	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 1:45 AM	176.00	0.80	58.50	23.80	0.00	45.90	58.50	49.20	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 2:00 AM	191.00	1.00	53.00	51.90	0.00	51.90	60.70	53.00	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 2:15 AM	200.00	0.70	55.10	40.00	0.00	40.00	56.90	55.10	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 2:30 AM	227.00	0.80	57.60	38.10	0.00	38.10	56.30	57.60	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 2:45 AM	0.00	0.00	0.00	0.00	0.00	44.50	62.10	60.80	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 3:00 AM	190.00	0.70	59.40	45.30	0.00	45.30	61.60	59.40	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 3:15 AM	169.00	0.90	61.60	20.80	0.00	41.40	61.60	61.10	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 3:30 AM	175.00	1.70	63.80	20.40	0.00	43.10	63.80	61.40	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 3:45 AM	185.00	0.40	62.90	43.40	0.00	43.40	67.70	62.90	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 4:00 AM	173.00	0.50	65.70	19.30	0.00	39.50	65.70	59.60	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 4:15 AM	240.00	0.60	57.60	38.40	0.00	38.40	61.70	57.60	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 4:30 AM	173.00	0.80	60.20	17.50	0.00	37.70	60.20	55.60	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 4:45 AM	190.00	1.00	54.10	36.60	0.00	36.60	62.70	54.10	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 5:00 AM	182.00	0.90	53.10	33.70	0.00	33.70	58.40	53.10	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 5:15 AM	186.00	0.80	55.50	36.90	0.00	36.90	59.10	55.50	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 5:30 AM	205.00	0.60	57.00	33.60	0.00	33.60	62.50	57.00	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 5:45 AM	159.00	0.50	60.10	17.20	0.00	35.50	60.10	57.70	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 6:00 AM	208.00	0.60	63.10	35.00	0.00	35.00	62.30	63.10	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 6:15 AM	181.00	0.70	59.70	32.50	0.00	32.50	61.50	59.70	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 6:30 AM	206.00	1.20	58.70	38.10	0.00	38.10	62.50	58.70	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 6:45 AM	170.00	1.50	64.00	16.40	0.00	32.90	64.00	58.10	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 7:00 AM	182.00	2.00	59.90	32.80	0.00	32.80	65.40	59.90	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 7:15 AM	207.00	1.90	64.00	33.60	0.00	33.60	66.00	64.00	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 7:30 AM	185.00	2.40	55.30	46.80	0.00	46.80	85.10	55.30	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 7:45 AM	200.00	2.00	43.30	36.80	0.00	36.80	55.30	43.30	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 8:00 AM	193.00	2.20	40.40	40.30	0.00	40.30	53.10	40.40	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 8:15 AM	185.00	2.20	33.40	42.80	9.40	42.80	49.10	33.40	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 8:30 AM	196.00	1.80	28.50	33.90	5.40	33.90	40.80	28.50	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 8:45 AM	211.00	2.90	24.50	27.40	2.90	27.40	36.10	24.50	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 9:00 AM	206.00	2.30	19.20	25.30	6.10	25.30	31.00	19.20	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 9:15 AM	211.00	4.00	17.10	24.10	7.00	24.10	27.40	17.10	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 9:30 AM	189.00	3.70	13.40	19.00	5.60	19.00	23.30	13.40	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 9:45 AM	202.00	3.50	11.60	23.90	12.30	23.90	17.00	11.60	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 10:00 AM	182.00	4.10	10.80	17.50	6.70	17.50	16.60	10.80	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 10:15 AM	189.00	4.00	8.10	12.30	4.20	12.30	12.60	8.10	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 10:30 AM	178.00	4.70	12.00	8.30	0.00	11.10	12.00	6.70	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 10:45 AM	220.00	5.10	6.50	12.20	5.70	12.20	12.30	6.50	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 11:00 AM	168.00	5.00	30.10	7.90	0.00	13.00	30.10	6.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 11:15 AM	182.00	3.70	6.70	12.50	5.80	12.50	11.80	6.70	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 11:30 AM	189.00	5.70	6.10	13.10	7.00	13.10	11.80	6.10	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 11:45 AM	193.00	3.70	6.60	13.20	6.60	13.20	13.30	6.60	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 12:00 PM	189.00	3.10	6.10	12.60	6.50	12.60	13.40	6.10	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 12:15 PM	181.00	3.10	6.20	12.80	6.60	12.80	12.50	6.20	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 12:30 PM	168.00	4.70	21.80	7.80	0.00	12.90	21.80	6.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 12:45 PM	243.00	3.70	6.60	13.90	7.30	13.90	14.00	6.60	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 1:00 PM	189.00	4.80	6.10	11.50	5.40	11.50	14.20	6.10	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 1:15 PM	219.00	4.00	6.30	11.60	5.30	11.60	12.20	6.30	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 1:30 PM	214.00	4.50	5.90	12.30	6.40	12.30	12.90	5.90	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 1:45 PM	206.00	4.50	5.80	12.60	6.80	12.60	12.90	5.80	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 2:00 PM	232.00	3.00	5.30	11.20	5.90	11.20	11.60	5.30	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 2:15 PM	206.00	4.40	5.10	11.20	6.10	11.20	11.20	5.10	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 2:30 PM	186.00	4.50	5.60	11.70	6.10	11.70	11.70	5.60	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 2:45 PM	208.00	3.60	5.10	11.50	6.40	11.50	11.40	5.10	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 3:00 PM	243.00	3.60	6.40	14.20	7.80	14.20	14.00	6.40	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 3:15 PM	199.00	3.70	7.70	14.90	7.20	14.90	14.70	7.70	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 3:30 PM	212.00	4.00	8.00	15.90	7.90	15.90	14.80	8.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 3:45 PM	189.00	3.50	8.90	17.40	8.50	17.40	15.80	8.90	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 4:00 PM	213.00	3.20	9.50	16.00	6.50	16.00	15.80	9.50	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 4:15 PM	187.00	3.50	9.20	16.00	6.80	16.00	14.30	9.20	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 4:30 PM	178.00	4.10	14.20	10.40	0.00	15.70	14.20	9.10	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 4:45 PM	212.00	2.90	9.60	15.60	6.00	15.60	14.70	9.60	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 5:00 PM	162.00	3.60	15.00	10.30	0.00	16.60	15.00	9.70	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 5:15 PM	212.00	4.10	9.40	14.60	5.20	14.60	14.30	9.40	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 5:30 PM	173.00	3.90	14.00	9.00	0.00	14.10	14.00	9.40	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 5:45 PM	169.00	4.50	13.70	8.50	0.00	13.60	13.70	9.40	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 6:00 PM	197.00	3.50	8.60	13.50	4.90	13.50	12.70	8.60	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 6:15 PM	153.00	2.90	13.80	9.50	0.00	15.30	13.80	10.00	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 6:30 PM	208.00	3.80	10.30	13.10	2.80	13.10	13.20	10.30	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 6:45 PM	197.00	4.40	9.70	13.70	4.00	13.70	13.80	9.70	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 7:00 PM	174.00	3.40	13.80	9.20	0.00	13.20	13.80	9.90	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 7:15 PM	209.00	3.70	10.50	13.40	2.90	13.40	13.80	10.50	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Retrieved from www.indianaharbordredge.com
on 8/15/2014 3:19 PM

US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 2014
(note: weather station malfunction between 7/1 and 7/15)

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)							Naphthalene (µg/m³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
7/21/14 7:30 PM	175.00	3.40	14.50	11.00	0.00	13.50	14.50	12.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 7:45 PM	185.00	4.10	12.60	13.50	0.90	13.50	14.20	12.60	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 8:00 PM	187.00	3.00	14.40	13.90	0.00	13.90	15.40	14.40	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 8:15 PM	181.00	3.30	13.60	13.90	0.30	13.90	15.50	13.60	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 8:30 PM	178.00	3.60	17.20	14.10	0.00	14.10	17.20	15.60	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 8:45 PM	179.00	2.50	17.50	14.30	0.00	15.60	17.50	16.40	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 9:00 PM	200.00	2.20	16.70	14.60	0.00	14.60	17.60	16.70	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 9:15 PM	187.00	2.00	17.70	14.70	0.00	14.70	18.40	17.70	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 9:30 PM	171.00	3.10	19.60	13.00	0.00	15.90	19.60	19.10	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 9:45 PM	189.00	2.80	19.10	17.10	0.00	17.10	21.30	19.10	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 10:00 PM	187.00	2.00	21.00	19.40	0.00	19.40	22.90	21.00	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 10:15 PM	177.00	2.00	26.70	11.90	0.00	0.00	26.70	22.40	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 10:30 PM	185.00	2.80	23.00	17.60	0.00	17.60	25.70	23.00	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 10:45 PM	206.00	2.20	25.20	17.90	0.00	17.90	28.10	25.20	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 11:00 PM	171.00	2.30	28.00	10.90	0.00	17.90	28.00	27.20	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 11:15 PM	176.00	3.10	28.20	11.60	0.00	18.90	28.20	28.30	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 11:30 PM	183.00	3.20	30.20	19.10	0.00	19.10	29.00	30.20	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/14 11:45 PM	203.00	2.60	31.10	22.60	0.00	22.60	31.60	31.10	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 12:00 AM	185.00	2.20	31.80	21.00	0.00	21.00	32.00	31.80	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 12:15 AM	179.00	2.40	31.30	13.70	0.00	0.00	31.30	34.00	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 12:30 AM	186.00	2.10	33.80	23.20	0.00	23.20	32.60	33.80	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 12:45 AM	182.00	2.00	33.80	0.00	0.00	0.00	34.10	33.80	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 1:00 AM	192.00	1.50	34.10	19.90	0.00	19.90	32.50	34.10	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 1:15 AM	197.00	1.90	35.10	21.40	0.00	21.40	33.20	35.10	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 1:30 AM	195.00	2.40	37.50	22.90	0.00	22.90	35.50	37.50	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 1:45 AM	183.00	1.70	36.80	23.40	0.00	23.40	35.70	36.80	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 2:00 AM	206.00	1.40	37.60	25.10	0.00	25.10	36.30	37.60	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 2:15 AM	196.00	2.40	39.40	0.00	0.00	0.00	37.40	39.40	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 2:30 AM	198.00	2.30	39.30	26.00	0.00	26.00	37.90	39.30	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 2:45 AM	191.00	3.00	40.90	26.30	0.00	26.30	39.80	40.90	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 3:00 AM	194.00	2.80	46.20	28.60	0.00	28.60	42.90	46.20	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 3:15 AM	195.00	2.90	47.90	28.60	0.00	28.60	43.20	47.90	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 3:30 AM	202.00	2.50	48.90	28.60	0.00	28.60	42.50	48.90	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 3:45 AM	186.00	3.20	50.80	27.90	0.00	27.90	43.00	50.80	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 4:00 AM	178.00	3.40	42.70	18.70	0.00	28.50	42.70	51.20	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 4:15 AM	184.00	2.80	50.40	29.00	0.00	29.00	43.80	50.40	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 4:30 AM	194.00	3.10	52.20	28.50	0.00	28.50	43.50	52.20	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 4:45 AM	199.00	2.80	49.30	26.50	0.00	26.50	40.90	49.30	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 5:00 AM	187.00	3.70	46.70	25.00	0.00	25.00	37.40	46.70	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 5:15 AM	190.00	4.50	44.50	24.60	0.00	24.60	35.40	44.50	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 5:30 AM	193.00	3.60	43.80	24.10	0.00	24.10	35.30	43.80	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 5:45 AM	189.00	3.20	43.20	23.90	0.00	23.90	34.10	43.20	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 6:00 AM	186.00	4.80	43.10	24.20	0.00	24.20	34.20	43.10	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 6:15 AM	201.00	2.80	43.10	23.90	0.00	23.90	34.70	43.10	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 6:30 AM	193.00	2.70	46.20	27.10	0.00	27.10	35.80	46.20	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 6:45 AM	191.00	2.90	45.70	27.90	0.00	27.90	37.60	45.70	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 7:00 AM	203.00	3.50	46.30	29.60	0.00	29.60	39.80	46.30	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 7:15 AM	201.00	2.60	47.80	29.50	0.00	29.50	39.30	47.80	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 7:30 AM	179.00	3.90	37.90	18.20	0.00	29.30	37.90	45.30	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 7:45 AM	184.00	4.90	43.10	28.30	0.00	28.30	37.60	43.10	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 8:00 AM	196.00	5.20	40.40	28.20	0.00	28.20	36.30	40.40	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 8:15 AM	196.00	4.20	39.60	32.30	0.00	32.30	33.70	39.60	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 8:30 AM	199.00	4.90	36.10	28.90	0.00	28.90	32.20	36.10	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 8:45 AM	176.00	5.10	31.10	16.80	0.00	28.30	31.10	34.50	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 9:00 AM	199.00	5.60	32.60	0.00	0.00	0.00	30.30	32.60	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 9:15 AM	217.00	6.60	30.80	26.90	0.00	26.90	28.80	30.80	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 9:30 AM	195.00	7.80	29.00	27.10	0.00	27.10	27.30	29.00	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 9:45 AM	199.00	4.90	29.10	27.40	0.00	27.40	26.90	29.10	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 10:00 AM	192.00	7.20	27.20	31.60	4.40	31.60	25.60	27.20	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 10:15 AM	210.00	6.80	26.70	27.20	0.50	27.20	25.80	26.70	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 10:30 AM	221.00	6.60	24.10	26.90	2.80	26.90	23.20	24.10	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 10:45 AM	222.00	6.60	24.30	27.60	3.30	27.60	23.00	24.30	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 11:00 AM	217.00	4.10	24.30	28.40	4.10	28.40	22.30	24.30	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 11:15 AM	205.00	6.10	23.70	29.40	5.70	29.40	22.80	23.70	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 11:30 AM	217.00	7.40	23.60	29.00	5.40	29.00	22.40	23.60	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 11:45 AM	225.00	6.80	22.50	27.40	4.90	27.40	22.30	22.50	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 12:00 PM	209.00	7.40	22.50	27.70	5.20	27.70	22.90	22.50	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 12:15 PM	202.00	4.60	23.50	28.90	5.40	28.90	23.10	23.50	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 12:30 PM	204.00	4.90	23.70	30.40	6.70	30.40	24.10	23.70	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 12:45 PM	203.00	7.00	25.30	32.00	6.70	32.00	24.80	25.30	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 1:00 PM	205.00	6.40	28.10	34.10	6.00	34.10	26.70	28.10	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 1:15 PM	211.00	7.00	28.80	35.00	6.20	35.00	28.10	28.80	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 1:30 PM	202.00	5.70	29.00	35.10	6.10	35.10	28.10	29.00	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 1:45 PM	194.00	7.10	29.80	35.10	5.30	35.10	27.80	29.80	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 2:00 PM	207.00	4.50	29.00	34.90	5.90	34.90	28.10	29.00	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 2:15 PM	202.00	5.50	29.10	35.00	5.90	35.00	28.70	29.10	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 2:30 PM	221.00	5.30	27.10	33.10	6.00	33.10	25.90	27.10	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 2:45 PM	192.00	5.60	27.50	33.10	5.60	33.10	25.80	27.50	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 3:00 PM	177.00	4.40	26.90	21.40	0.00	32.70	26.90	27.50	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 3:15 PM	203.00	5.30	29.40	32.00	2.60	32.00	27.10	29.40	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 3:30 PM	216.00	7.30	29.70	33.10	3.40	33.10	28.00	29.70	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 3:45 PM	188.00	6.10	30.60	33.60	3.00	33.60	28.60	30.60	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 4:00 PM	190.00	7.00	31.70	32.60	0.90	32.60	29.80	31.70	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 4:15 PM	208.00	8.10	33.80	33.90	0.10	33.90	32.60	33.80	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 4:30 PM	207.00	4.90	34.80	35.70	0.90	35.70	33.20	34.80	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 4:45 PM	221.00	7.10	36.90	35.10	0.00	35.10	34.40	36.90	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 5:00 PM	223.00	6.40	37.10	34.90	0.00	34.90	35.50	37.10	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 5:15 PM	204.00	6.00	37.60	34.60	0.00	34.60	37.10	37.60	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 5:30 PM	220.00	4.80	37.00	35.90	0.00	35.90	35.30	37.00	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 5:45 PM	195.00	8.10	38.70	35.60	0.00	35.60	36.90	38.70	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 6:00 PM	218.00	6.40	40.10	35.10	0.00	35.10	37.40	40.10	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 6:15 PM	198.00	6.00	39.40	32.60	0.00	32.60	36.30	39.40	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 6:30 PM	209.00	6.60	42.90	32.80	0.00	32.80	38.50	42.90	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 6:45 PM	193.00	3.90	45.30	33.50	0.00	33.50	40.60	45.30	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 7:00 PM	214.00	4.30	49.50	34.20	0.00	34.20	42.20	49.50	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 7:15 PM	213.00	4.30	50.90	33.80	0.00	33.80	43.50	50.90	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 7:30 PM	205.00	4.60	52.70	31.90	0.00	31.90	44.20	52.70	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 7:45 PM	215.00	6.50	54.60	30.80	0.00	30.80	44.30	54.60	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 8:00 PM	217.00	3.70	55.60	30.20	0.00	30.20	45.10	55.60	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 8:15 PM	205.00	4.90	59.00	29.80	0.00	29.80	46.30	59.00	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 8:30 PM	217.00	4.00	61.30	29.70	0.00	29.70	48.40	61.30	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Retrieved from www.indianaharbordredge.com
on 8/15/2014 3:19 PM

US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 2014
(note: weather station malfunction between 7/1 and 7/15)

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)							Naphthalene (µg/m³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
7/22/14 8:45 PM	213.00	3.30	63.50	30.20	0.00	30.20	48.90	63.50	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 9:00 PM	200.00	4.40	63.50	30.10	0.00	30.10	50.00	63.50	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 9:15 PM	223.00	3.60	67.10	30.30	0.00	30.30	50.60	67.10	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 9:30 PM	225.00	3.70	69.10	30.80	0.00	30.80	51.20	69.10	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 9:45 PM	218.00	3.60	70.50	31.30	0.00	31.30	51.40	70.50	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 10:00 PM	228.00	5.10	75.70	30.90	0.00	30.90	53.60	75.70	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 10:15 PM	228.00	3.90	77.90	30.10	0.00	30.10	53.60	77.90	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 10:30 PM	221.00	5.20	76.60	29.70	0.00	29.70	51.60	76.60	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 10:45 PM	215.00	3.60	75.80	29.00	0.00	29.00	49.40	75.80	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 11:00 PM	221.00	4.40	74.80	28.50	0.00	28.50	48.60	74.80	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 11:15 PM	201.00	3.60	75.40	27.90	0.00	27.90	49.00	75.40	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 11:30 PM	205.00	2.80	79.80	28.20	0.00	28.20	49.00	79.80	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/14 11:45 PM	218.00	3.90	86.50	28.20	0.00	28.20	49.90	86.50	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 12:00 AM	353.00	10.90	16.10	50.70	34.60	28.40	50.70	90.00	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 12:15 AM	7.00	10.00	28.20	99.20	71.00	28.20	52.10	99.20	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 12:30 AM	41.00	3.60	29.00	104.30	75.30	29.00	53.10	104.30	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 12:45 AM	16.00	6.30	28.70	118.30	89.60	28.70	54.80	118.30	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 1:00 AM	3.00	2.80	28.80	126.60	97.80	28.80	56.10	126.60	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 1:15 AM	349.00	4.10	4.30	27.30	23.00	25.30	27.30	21.00	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 1:30 AM	3.00	12.50	14.50	8.30	0.00	14.50	17.90	8.30	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 1:45 AM	11.00	11.80	12.60	17.50	4.90	12.60	18.50	17.50	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 2:00 AM	14.00	10.60	12.30	17.50	5.20	12.30	17.20	17.50	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 2:15 AM	4.00	11.80	8.80	14.00	5.20	8.80	18.50	14.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 2:30 AM	9.00	11.70	10.00	34.00	24.00	10.00	22.20	34.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 2:45 AM	8.00	11.50	12.70	15.80	3.10	12.70	16.80	15.80	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 3:00 AM	6.00	10.90	10.30	8.50	0.00	10.30	13.70	8.50	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 3:15 AM	1.00	10.60	10.10	4.70	0.00	10.10	13.70	4.70	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 3:30 AM	358.00	11.50	4.80	8.40	3.60	10.90	8.40	1.20	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 3:45 AM	354.00	10.10	4.80	7.20	2.40	5.30	7.20	-0.40	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 4:00 AM	355.00	10.30	4.80	6.30	1.50	4.60	6.30	0.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 4:15 AM	8.00	10.40	4.00	-0.30	0.00	4.00	4.60	-0.30	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 4:30 AM	8.00	9.60	3.40	-0.10	0.00	3.40	4.00	-0.10	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 4:45 AM	6.00	9.90	2.80	-0.10	0.00	2.80	4.10	-0.10	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 5:00 AM	7.00	11.20	2.60	0.00	0.00	2.60	4.40	0.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 5:15 AM	7.00	11.10	3.10	-0.30	0.00	3.10	4.00	-0.30	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 5:30 AM	4.00	10.40	3.00	-0.30	0.00	3.00	3.70	-0.30	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 5:45 AM	8.00	9.00	3.30	-0.20	0.00	3.30	3.80	-0.20	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 6:00 AM	4.00	9.00	2.80	-0.20	0.00	2.80	3.50	-0.20	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 6:15 AM	6.00	12.50	3.90	-0.10	0.00	3.90	3.50	-0.10	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 6:30 AM	9.00	10.80	6.20	0.50	0.00	6.20	3.70	0.50	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 6:45 AM	7.00	12.20	5.80	0.40	0.00	5.80	3.10	0.40	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 7:00 AM	13.00	10.40	4.10	1.10	0.00	4.10	3.10	1.10	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 7:15 AM	14.00	11.10	4.90	1.30	0.00	4.90	3.40	1.30	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 7:30 AM	5.00	11.70	6.20	1.10	0.00	6.20	3.50	1.10	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 7:45 AM	16.00	10.90	5.00	1.60	0.00	5.00	3.80	1.60	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 8:00 AM	17.00	10.90	5.60	1.30	0.00	5.60	3.50	1.30	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 8:15 AM	16.00	10.00	5.90	1.60	0.00	5.90	3.10	1.60	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 8:30 AM	15.00	10.80	5.60	1.10	0.00	5.60	3.50	1.10	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 8:45 AM	2.00	8.50	8.90	1.40	0.00	8.90	3.40	1.40	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 9:00 AM	18.00	11.00	5.70	1.30	0.00	5.70	3.20	1.30	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 9:15 AM	5.00	10.60	3.90	1.30	0.00	3.90	3.10	1.30	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 9:30 AM	16.00	11.90	3.90	2.10	0.00	3.90	2.40	2.10	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 9:45 AM	6.00	9.50	5.10	1.50	0.00	5.10	2.90	1.50	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 10:00 AM	4.00	11.40	7.50	0.80	0.00	7.50	2.10	0.80	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 10:15 AM	1.00	10.40	6.40	0.80	0.00	6.40	2.00	0.80	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 10:30 AM	5.00	10.00	5.70	0.90	0.00	5.70	2.00	0.90	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 10:45 AM	20.00	12.60	4.80	0.80	0.00	4.80	1.80	0.80	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 11:00 AM	8.00	10.60	5.30	0.30	0.00	5.30	2.40	0.30	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 11:15 AM	17.00	12.00	5.20	0.50	0.00	5.20	2.10	0.50	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 11:30 AM	14.00	13.00	0.00	0.90	0.00	0.00	1.50	0.90	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 11:45 AM	10.00	10.40	4.40	0.50	0.00	4.40	1.50	0.50	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 12:00 PM	9.00	11.00	4.60	0.20	0.00	4.60	1.10	0.20	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 12:15 PM	14.00	10.40	9.30	0.00	0.00	9.30	1.30	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 12:30 PM	16.00	11.40	5.20	0.70	0.00	5.20	1.20	0.70	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 12:45 PM	13.00	10.50	7.80	0.80	0.00	7.80	1.30	0.80	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 1:00 PM	2.00	10.40	9.90	1.10	0.00	9.90	1.50	1.10	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 1:15 PM	5.00	9.70	4.60	1.60	0.00	4.60	1.20	1.60	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 1:30 PM	5.00	8.80	5.00	2.00	0.00	5.00	1.60	2.00	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 1:45 PM	7.00	11.60	5.20	0.90	0.00	5.20	1.50	0.90	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 2:00 PM	15.00	10.60	6.80	1.00	0.00	6.80	1.70	1.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 2:15 PM	12.00	8.80	8.10	1.40	0.00	8.10	1.20	1.40	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 2:30 PM	350.00	10.50	2.90	2.50	0.00	7.50	2.50	1.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 2:45 PM	7.00	10.50	7.60	1.10	0.00	7.60	2.50	1.10	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 3:00 PM	7.00	10.40	7.70	1.70	0.00	7.70	2.90	1.70	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 3:15 PM	4.00	9.80	6.70	1.40	0.00	6.70	2.90	1.40	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 3:30 PM	3.00	10.50	7.20	1.90	0.00	7.20	2.50	1.90	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 3:45 PM	15.00	9.70	6.00	2.00	0.00	6.00	2.70	2.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 4:00 PM	11.00	10.70	5.80	1.40	0.00	5.80	2.30	1.40	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 4:15 PM	4.00	11.20	6.60	1.00	0.00	6.60	2.40	1.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 4:30 PM	1.00	11.50	6.10	0.90	0.00	6.10	2.40	0.90	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 4:45 PM	12.00	11.70	4.90	0.30	0.00	4.90	2.20	0.30	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 5:00 PM	18.00	11.80	7.50	0.00	0.00	7.50	0.80	0.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 5:15 PM	7.00	9.70	6.30	0.50	0.00	6.30	0.60	0.50	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 5:30 PM	6.00	9.70	8.00	0.30	0.00	8.00	0.50	0.30	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 5:45 PM	1.00	12.30	7.00	0.40	0.00	7.00	0.30	0.40	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 6:00 PM	7.00	9.90	6.30	0.40	0.00	6.30	0.30	0.40	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 6:15 PM	10.00	8.70	6.90	1.30	0.00	6.90	0.40	1.30	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 6:30 PM	11.00	9.40	5.40	1.70	0.00	5.40	0.00	1.70	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 6:45 PM	357.00	10.20	3.30	1.10	0.00	7.10	1.10	2.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 7:00 PM	353.00	10.30	3.30	1.20	0.00	4.70	1.20	1.60	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 7:15 PM	355.00	10.40	3.30	1.40	0.00	4.20	1.40	1.40	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 7:30 PM	352.00	9.90	3.30	1.60	0.00	5.40	1.60	1.60	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 7:45 PM	0.00	9.70	3.10	1.40	0.00	3.10	1.10	1.40	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 8:00 PM	354.00	9.00	3.30	1.20	0.00	2.70	1.20	1.30	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 8:15 PM	0.00	7.70	2.30	1.00	0.00	2.30	0.90	1.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 8:30 PM	7.00	8.70	2.30	1.10	0.00	2.30	1.00	1.10	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 8:45 PM	6.00	9.20	2.70	1.20	0.00	2.70	1.00	1.20	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 9:00 PM	9.00	8.60	2.70	1.30	0.00	2.70	1.40	1.30	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 9:15 PM	9.00	7.70	2.90	1.40	0.00	2.90	1.50	1.40	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 9:30 PM	14.00	9.20	0.00	1.90	0.00	0.00	1.80	1.90	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 9:45 PM	15.00	8.50	0.00	2.30	0.00	0.00	2.70	2.30	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Retrieved from www.indianaharbordredge.com
on 8/15/2014 3:19 PM

US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 2014
(note: weather station malfunction between 7/1 and 7/15)

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)							Naphthalene (µg/m³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
7/23/14 10:00 PM	13.00	8.40	4.20	3.00	0.00	4.20	1.50	3.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 10:15 PM	23.00	7.60	4.30	3.50	0.00	4.30	1.50	3.50	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 10:30 PM	13.00	7.70	4.10	3.50	0.00	4.10	1.50	3.50	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 10:45 PM	10.00	8.20	7.90	3.10	0.00	7.90	2.60	3.10	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 11:00 PM	11.00	6.90	6.30	2.80	0.00	6.30	2.40	2.80	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 11:15 PM	9.00	7.30	4.60	3.20	0.00	4.60	2.10	3.20	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 11:30 PM	6.00	9.30	3.90	6.10	2.20	3.90	2.50	6.10	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/14 11:45 PM	28.00	6.50	4.40	9.10	4.70	4.40	2.60	9.10	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 12:00 AM	24.00	6.30	4.30	10.20	5.90	4.30	3.60	10.20	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 12:15 AM	24.00	4.40	4.70	13.00	8.30	4.70	3.60	13.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 12:30 AM	44.00	5.20	4.20	10.30	6.10	4.20	4.30	10.30	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 12:45 AM	42.00	7.10	4.70	11.60	6.90	4.70	4.10	11.60	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 1:00 AM	36.00	7.20	4.70	12.30	7.60	4.70	4.90	12.30	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 1:15 AM	35.00	7.50	5.90	14.90	9.00	5.90	7.50	14.90	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 1:30 AM	34.00	6.90	6.10	15.60	9.50	6.10	10.30	15.60	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 1:45 AM	43.00	6.60	5.60	18.40	12.80	5.60	9.00	18.40	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 2:00 AM	40.00	5.80	6.70	18.60	11.90	6.70	13.00	18.60	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 2:15 AM	46.00	6.20	6.40	17.00	10.60	6.40	13.00	17.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 2:30 AM	32.00	6.20	8.20	15.40	7.20	8.20	11.60	15.40	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 2:45 AM	41.00	5.70	6.50	15.60	9.10	6.50	10.80	15.60	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 3:00 AM	38.00	6.00	6.40	15.00	8.60	6.40	9.70	15.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 3:15 AM	43.00	5.90	7.40	10.20	2.80	7.40	6.00	10.20	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 3:30 AM	42.00	6.40	6.90	8.90	2.00	6.90	7.40	8.90	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 3:45 AM	29.00	4.70	5.80	8.90	3.10	5.80	5.40	8.90	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 4:00 AM	34.00	5.90	5.40	8.20	2.80	5.40	6.00	8.20	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 4:15 AM	24.00	6.20	5.80	8.20	2.40	5.80	5.60	8.20	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 4:30 AM	26.00	5.60	6.10	10.30	4.20	6.10	6.30	10.30	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 4:45 AM	32.00	5.00	5.30	10.30	5.00	5.30	6.10	10.30	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 5:00 AM	26.00	6.20	4.30	9.80	5.50	4.30	6.60	9.80	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 5:15 AM	35.00	6.40	4.30	10.60	6.30	4.30	6.80	10.60	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 5:30 AM	29.00	6.60	5.90	7.90	2.00	5.90	0.00	7.90	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 5:45 AM	28.00	6.90	6.50	9.10	2.60	6.50	5.20	9.10	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 6:00 AM	44.00	5.50	5.40	8.20	2.80	5.40	6.30	8.20	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 6:15 AM	36.00	5.90	6.00	7.20	1.20	6.00	6.10	7.20	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 6:30 AM	33.00	5.80	5.50	7.00	1.50	5.50	5.10	7.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 6:45 AM	19.00	6.60	4.50	6.50	2.00	4.50	3.50	6.50	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 7:00 AM	19.00	7.50	4.60	6.20	1.60	4.60	3.60	6.20	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 7:15 AM	12.00	7.20	5.80	8.60	2.80	5.80	4.20	8.60	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 7:30 AM	15.00	7.30	4.80	8.50	3.70	4.80	4.00	8.50	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 7:45 AM	13.00	8.40	5.70	9.00	3.30	5.70	3.90	9.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 8:00 AM	16.00	8.70	4.80	9.10	4.30	4.80	4.40	9.10	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 8:15 AM	14.00	7.50	6.40	10.90	4.50	6.40	5.50	10.90	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 8:30 AM	3.00	7.50	6.00	9.10	3.10	6.00	5.80	9.10	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 8:45 AM	17.00	9.00	5.10	8.70	3.60	5.10	6.00	8.70	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 9:00 AM	11.00	9.20	5.40	9.10	3.70	5.40	6.60	9.10	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 9:15 AM	8.00	7.30	5.50	9.10	3.60	5.50	6.60	9.10	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 9:30 AM	7.00	7.90	5.30	8.30	3.00	5.30	6.80	8.30	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 9:45 AM	7.00	8.00	5.80	10.30	4.50	5.80	6.10	10.30	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 10:00 AM	32.00	8.30	5.30	10.20	4.90	5.30	6.00	10.20	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 10:15 AM	7.00	8.40	6.20	10.60	4.40	6.20	7.70	10.60	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 10:30 AM	8.00	7.90	6.50	10.10	3.60	6.50	9.30	10.10	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 10:45 AM	34.00	7.50	8.20	10.10	1.90	8.20	11.60	10.10	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 11:00 AM	38.00	7.20	6.70	8.40	1.70	6.70	9.00	8.40	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 11:15 AM	10.00	7.40	6.40	8.90	2.50	6.40	8.90	8.90	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 11:30 AM	23.00	6.80	6.50	8.80	2.30	6.50	9.00	8.80	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 11:45 AM	17.00	6.90	7.90	10.50	2.60	7.90	8.70	10.50	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 12:00 PM	22.00	7.00	7.10	7.30	0.20	7.10	8.30	7.30	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 12:15 PM	21.00	6.20	7.40	11.80	4.40	7.40	8.50	11.80	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 12:30 PM	25.00	6.00	5.50	8.90	3.40	5.50	8.70	8.90	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 12:45 PM	3.00	6.10	5.70	7.30	1.60	5.70	7.50	7.30	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 1:00 PM	4.00	6.40	5.50	5.60	0.10	5.50	5.80	5.60	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 1:15 PM	359.00	7.70	1.40	5.80	4.40	6.10	5.80	6.30	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 1:30 PM	4.00	6.00	6.00	5.70	0.00	6.00	4.00	5.70	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 1:45 PM	13.00	5.50	4.70	5.50	0.80	4.70	4.20	5.50	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 2:00 PM	2.00	5.10	8.20	5.20	0.00	8.20	10.40	5.20	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 2:15 PM	13.00	5.10	8.10	4.60	0.00	8.10	5.00	4.60	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 2:30 PM	23.00	6.80	12.10	4.60	0.00	12.10	5.70	4.60	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 2:45 PM	13.00	6.50	8.40	4.20	0.00	8.40	4.30	4.20	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 3:00 PM	13.00	6.60	6.40	4.00	0.00	6.40	3.10	4.00	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 3:15 PM	14.00	6.90	5.00	4.40	0.00	5.00	2.30	4.40	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 3:30 PM	13.00	5.80	4.80	4.40	0.00	4.80	2.20	4.40	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 3:45 PM	24.00	4.50	13.50	3.80	0.00	13.50	2.40	3.80	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 4:00 PM	20.00	5.70	6.20	3.80	0.00	6.20	2.90	3.80	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 4:15 PM	42.00	5.70	6.20	4.10	0.00	6.20	3.70	4.10	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 4:30 PM	23.00	4.40	7.50	3.90	0.00	7.50	3.40	3.90	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 4:45 PM	33.00	3.30	3.90	3.30	0.00	3.90	2.30	3.30	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 5:00 PM	27.00	3.10	4.00	3.70	0.00	4.00	2.60	3.70	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 5:15 PM	25.00	3.70	4.20	4.80	0.60	4.20	1.90	4.80	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 5:30 PM	23.00	5.30	7.00	5.10	0.00	7.00	4.90	5.10	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 5:45 PM	25.00	5.10	11.40	6.90	0.00	11.40	8.00	6.90	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 6:00 PM	17.00	4.70	4.30	4.90	0.60	4.30	5.10	4.90	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 6:15 PM	47.00	2.90	9.70	6.80	0.00	9.70	6.30	6.80	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 6:30 PM	45.00	2.50	4.30	5.50	1.20	4.30	5.90	5.50	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 6:45 PM	10.00	3.90	0.00	4.70	0.00	0.00	2.10	4.70	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 7:00 PM	26.00	1.80	5.90	5.40	0.00	5.90	4.60	5.40	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 7:15 PM	31.00	3.10	3.50	5.50	2.00	3.50	3.50	5.50	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 7:30 PM	22.00	4.40	0.00	5.90	0.00	0.00	1.50	5.90	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 7:45 PM	32.00	3.50	3.80	5.70	1.90	3.80	2.10	5.70	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 8:00 PM	75.00	2.70	9.70	7.40	0.00	9.70	6.70	7.40	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 8:15 PM	50.00	1.40	8.20	7.30	0.00	8.20	7.20	7.30	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 8:30 PM	36.00	1.40	4.90	6.80	1.90	4.90	6.20	6.80	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 8:45 PM	64.00	2.10	6.00	8.60	2.60	6.00	5.30	8.60	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 9:00 PM	63.00	2.60	5.60	9.20	3.60	5.60	11.00	9.20	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 9:15 PM	129.00	3.70	8.20	0.90	0.00	30.30	8.20	12.40	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 9:30 PM	132.00	3.00	8.70	0.10	0.00	13.10	8.70	10.80	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 9:45 PM	149.00	1.90	24.00	0.50	0.00	15.20	24.00	9.20	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 10:00 PM	174.00	1.70	13.70	13.40	0.00	18.60	13.70	12.10	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 10:15 PM	179.00	1.80	12.60	7.20	0.00	18.50	12.60	15.40	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 10:30 PM	182.00	1.40	7.70	3.40	0.00	3.40	7.20	7.70	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 10:45 PM	164.00	1.90	8.90	0.80	0.00	4.60	8.90	8.00	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 11:00 PM	169.00	1.80	14.20	1.70	0.00	13.90	14.20	8.60	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Retrieved from www.indianaharbordredge.com
on 8/15/2014 3:19 PM

US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 2014
(note: weather station malfunction between 7/1 and 7/15)

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)							Naphthalene (µg/m³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
7/24/14 11:15 PM	177.00	1.80	23.20	1.70	0.00	8.70	23.20	10.50	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 11:30 PM	153.00	2.40	27.00	3.70	0.00	16.70	27.00	11.40	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/14 11:45 PM	148.00	2.30	20.90	3.50	0.00	12.30	20.90	12.10	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 12:00 AM	142.00	2.30	20.30	3.40	0.00	9.40	20.30	12.00	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 12:15 AM	174.00	1.60	19.10	3.10	0.00	12.50	19.10	11.90	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 12:30 AM	182.00	1.50	13.10	22.30	9.20	22.30	32.80	13.10	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 12:45 AM	170.00	1.30	31.30	7.60	0.00	0.00	31.30	12.90	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 1:00 AM	194.00	1.60	15.60	13.40	0.00	13.40	21.70	15.60	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 1:15 AM	203.00	1.40	18.10	19.80	1.70	19.80	40.70	18.10	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 1:30 AM	186.00	1.70	14.10	11.00	0.00	11.00	23.80	14.10	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 1:45 AM	216.00	1.10	15.10	11.60	0.00	11.60	18.20	15.10	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 2:00 AM	211.00	1.30	17.00	0.00	0.00	0.00	17.60	17.00	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 2:15 AM	238.00	1.60	16.40	15.10	0.00	15.10	25.30	16.40	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 2:30 AM	210.00	0.90	16.10	20.10	4.00	20.10	31.30	16.10	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 2:45 AM	227.00	0.70	17.30	19.60	2.30	19.60	29.40	17.30	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 3:00 AM	184.00	1.10	15.80	13.40	0.00	13.40	23.10	15.80	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 3:15 AM	198.00	1.30	15.90	10.40	0.00	10.40	18.00	15.90	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 3:30 AM	168.00	1.00	17.10	5.50	0.00	9.70	17.10	15.80	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 3:45 AM	184.00	2.20	17.20	10.30	0.00	10.30	18.60	17.20	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 4:00 AM	188.00	2.50	19.00	11.00	0.00	11.00	17.90	19.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 4:15 AM	198.00	2.10	19.00	0.00	0.00	0.00	16.80	19.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 4:30 AM	215.00	2.30	20.20	13.20	0.00	13.20	17.70	20.20	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 4:45 AM	189.00	2.30	19.60	12.40	0.00	12.40	16.80	19.60	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 5:00 AM	200.00	2.50	20.00	0.00	0.00	0.00	21.70	20.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 5:15 AM	189.00	2.50	22.90	14.50	0.00	14.50	21.00	22.90	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 5:30 AM	187.00	2.30	19.60	15.80	0.00	15.80	23.80	19.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 5:45 AM	160.00	3.00	21.00	3.80	0.00	11.80	21.00	19.30	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 6:00 AM	195.00	1.90	19.10	11.50	0.00	11.50	21.50	19.10	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 6:15 AM	205.00	2.30	19.20	15.40	0.00	15.40	23.60	19.20	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 6:30 AM	209.00	2.40	20.60	15.00	0.00	15.00	25.70	20.60	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 6:45 AM	213.00	2.20	23.40	29.40	6.00	29.40	28.50	23.40	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 7:00 AM	212.00	2.60	21.60	25.40	3.80	25.40	27.90	21.60	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 7:15 AM	218.00	2.00	21.20	15.20	0.00	15.20	22.80	21.20	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 7:30 AM	215.00	2.80	20.80	16.40	0.00	16.40	24.80	20.80	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 7:45 AM	233.00	2.80	19.20	11.10	0.00	11.10	18.10	19.20	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 8:00 AM	211.00	1.60	17.30	12.40	0.00	12.40	16.20	17.30	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 8:15 AM	223.00	2.40	16.40	10.20	0.00	10.20	15.30	16.40	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 8:30 AM	205.00	2.40	15.80	10.40	0.00	10.40	14.40	15.80	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 8:45 AM	205.00	3.60	18.20	17.60	0.00	17.60	15.60	18.20	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 9:00 AM	199.00	2.20	20.20	17.60	0.00	17.60	20.40	20.20	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 9:15 AM	175.00	4.00	20.20	12.20	0.00	19.40	20.20	20.20	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 9:30 AM	189.00	3.50	19.50	17.10	0.00	17.10	18.30	19.50	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 9:45 AM	207.00	3.60	21.30	21.50	0.20	21.50	23.80	21.30	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 10:00 AM	213.00	3.10	19.50	18.90	0.00	18.90	17.70	19.50	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 10:15 AM	217.00	4.30	16.50	17.00	0.50	17.00	17.90	16.50	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 10:30 AM	196.00	5.30	17.30	14.70	0.00	14.70	17.00	17.30	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 10:45 AM	200.00	4.70	16.10	14.40	0.00	14.40	16.70	16.10	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 11:00 AM	192.00	4.60	14.60	9.80	0.00	9.80	14.00	14.60	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 11:15 AM	195.00	5.10	13.80	9.00	0.00	9.00	10.30	13.80	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 11:30 AM	201.00	5.70	11.70	9.20	0.00	9.20	10.60	11.70	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 11:45 AM	190.00	4.20	10.80	0.00	0.00	0.00	8.90	10.80	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 12:00 PM	190.00	5.20	11.00	9.30	0.00	9.30	8.40	11.00	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 12:15 PM	206.00	7.10	11.30	9.20	0.00	9.20	7.90	11.30	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 12:30 PM	207.00	5.30	11.10	9.10	0.00	9.10	8.20	11.10	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 12:45 PM	197.00	5.40	11.50	9.60	0.00	9.60	10.30	11.50	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 1:00 PM	191.00	5.40	12.00	8.10	0.00	8.10	9.20	12.00	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 1:15 PM	209.00	5.60	12.20	9.80	0.00	9.80	10.00	12.20	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 1:30 PM	205.00	5.20	11.60	10.10	0.00	10.10	9.40	11.60	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 1:45 PM	193.00	5.10	11.20	9.60	0.00	9.60	9.50	11.20	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 2:00 PM	183.00	7.00	11.60	9.80	0.00	9.80	9.20	11.60	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 2:15 PM	165.00	6.90	15.30	5.20	0.00	11.50	15.30	12.40	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 2:30 PM	214.00	6.60	13.60	12.80	0.00	12.80	11.60	13.60	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 2:45 PM	209.00	8.60	13.50	11.80	0.00	11.80	12.30	13.50	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 3:00 PM	219.00	4.50	12.60	12.20	0.00	12.20	12.10	12.60	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 3:15 PM	216.00	5.30	13.20	14.60	1.40	14.60	14.30	13.20	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 3:30 PM	210.00	4.80	12.20	13.10	0.90	13.10	13.10	12.20	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 3:45 PM	201.00	3.20	12.00	12.50	0.50	12.50	12.70	12.00	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 4:00 PM	223.00	3.70	12.20	12.40	0.20	12.40	32.70	12.20	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 4:15 PM	209.00	3.20	12.50	11.40	0.00	11.40	12.40	12.50	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 4:30 PM	199.00	3.80	12.70	12.10	0.00	12.10	12.10	12.70	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 4:45 PM	210.00	3.40	12.70	12.90	0.20	12.90	12.90	12.70	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 5:00 PM	228.00	3.10	13.30	13.40	0.10	13.40	13.20	13.30	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 5:15 PM	198.00	2.80	14.30	13.90	0.00	13.90	14.80	14.30	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 5:30 PM	226.00	2.70	16.90	13.90	0.00	13.90	15.40	16.90	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 5:45 PM	215.00	2.20	15.30	14.40	0.00	14.40	16.10	15.30	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 6:00 PM	213.00	3.80	15.80	15.20	0.00	15.20	17.40	15.80	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 6:15 PM	209.00	3.70	16.60	16.70	0.10	16.70	19.60	16.60	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 6:30 PM	206.00	3.80	19.20	17.50	0.00	17.50	20.70	19.20	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 6:45 PM	211.00	3.90	19.30	18.70	0.00	18.70	21.60	19.30	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 7:00 PM	218.00	3.80	19.80	18.80	0.00	18.80	23.10	19.80	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 7:15 PM	193.00	4.20	20.00	18.40	0.00	18.40	22.70	20.00	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 7:30 PM	202.00	4.10	19.40	17.90	0.00	17.90	22.40	19.40	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 7:45 PM	203.00	3.50	19.00	16.80	0.00	16.80	20.80	19.00	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 8:00 PM	200.00	2.80	18.00	15.90	0.00	15.90	19.40	18.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 8:15 PM	201.00	2.80	17.50	16.30	0.00	16.30	19.50	17.50	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 8:30 PM	201.00	3.70	17.40	16.20	0.00	16.20	18.50	17.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 8:45 PM	189.00	3.70	17.60	16.10	0.00	16.10	18.70	17.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 9:00 PM	195.00	3.40	18.20	17.40	0.00	17.40	20.60	18.20	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 9:15 PM	200.00	2.80	19.40	16.50	0.00	16.50	21.00	19.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 9:30 PM	199.00	4.20	19.80	17.10	0.00	17.10	21.60	19.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 9:45 PM	195.00	3.20	20.10	18.20	0.00	18.20	21.20	20.10	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 10:00 PM	197.00	3.40	20.40	18.30	0.00	18.30	21.20	20.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 10:15 PM	200.00	2.80	20.20	16.00	0.00	16.00	20.20	20.20	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 10:30 PM	0.00	0.00	0.00	0.00	0.00	16.90	0.00	19.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 10:45 PM	201.00	2.90	20.30	17.70	0.00	17.70	20.30	20.30	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 11:00 PM	0.00	0.00	0.00	0.00	0.00	16.00	19.70	19.90	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 11:15 PM	200.00	2.80	20.00	15.90	0.00	15.90	18.60	20.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 11:30 PM	191.00	4.00	20.80	15.50	0.00	15.50	19.30	20.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/14 11:45 PM	200.00	3.20	20.80	15.80	0.00	15.80	19.80	20.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 12:00 AM	193.00	2.90	19.60	14.70	0.00	14.70	19.10	19.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 12:15 AM	195.00	2.90	19.90	15.50	0.00	15.50	19.40	19.90	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Retrieved from www.indianaharbordredge.com
on 8/15/2014 3:19 PM

US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 2014
(note: weather station malfunction between 7/1 and 7/15)

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)							Naphthalene (µg/m³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
7/26/14 12:30 AM	187.00	3.80	19.90	15.00	0.00	15.00	19.50	19.90	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 12:45 AM	194.00	3.00	19.40	15.20	0.00	15.20	19.40	19.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 1:00 AM	209.00	3.30	19.60	15.10	0.00	15.10	20.00	19.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 1:15 AM	194.00	2.70	20.60	15.30	0.00	15.30	20.20	20.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 1:30 AM	219.00	3.30	20.80	15.10	0.00	15.10	19.50	20.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 1:45 AM	209.00	3.30	20.60	15.10	0.00	15.10	20.30	20.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 2:00 AM	208.00	3.60	20.80	15.10	0.00	15.10	20.20	20.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 2:15 AM	199.00	3.40	20.30	15.30	0.00	15.30	20.10	20.30	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 2:30 AM	212.00	3.50	20.20	15.10	0.00	15.10	20.10	20.20	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 2:45 AM	215.00	4.00	20.50	15.00	0.00	15.00	21.00	20.50	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 3:00 AM	209.00	3.40	20.60	16.20	0.00	16.20	21.10	20.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 3:15 AM	209.00	3.90	20.80	16.80	0.00	16.80	21.40	20.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 3:30 AM	206.00	4.00	20.60	16.40	0.00	16.40	21.40	20.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 3:45 AM	205.00	4.50	20.30	0.00	0.00	0.00	21.10	20.30	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 4:00 AM	202.00	3.60	20.50	17.10	0.00	17.10	21.40	20.50	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 4:15 AM	211.00	3.80	21.00	18.00	0.00	18.00	22.00	21.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 4:30 AM	204.00	3.20	20.90	17.40	0.00	17.40	21.50	20.90	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 4:45 AM	194.00	3.40	21.70	18.20	0.00	18.20	21.70	21.70	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 5:00 AM	209.00	2.90	22.00	18.50	0.00	18.50	24.10	22.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 5:15 AM	202.00	3.20	22.50	17.80	0.00	17.80	24.80	22.50	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 5:30 AM	193.00	3.10	23.30	18.00	0.00	18.00	26.30	23.30	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 5:45 AM	180.00	2.80	23.60	18.80	0.00	18.80	26.90	23.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 6:00 AM	189.00	3.20	23.70	18.10	0.00	18.10	27.00	23.70	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 6:15 AM	191.00	4.00	23.80	18.40	0.00	18.40	27.90	23.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 6:30 AM	207.00	3.20	23.70	18.70	0.00	18.70	27.20	23.70	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 6:45 AM	199.00	3.70	23.90	19.10	0.00	19.10	27.10	23.90	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 7:00 AM	208.00	4.00	23.90	17.80	0.00	17.80	27.20	23.90	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 7:15 AM	208.00	2.70	24.30	19.50	0.00	19.50	27.80	24.30	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 7:30 AM	171.00	4.00	28.40	7.90	0.00	19.20	28.40	24.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 7:45 AM	192.00	2.60	24.90	18.70	0.00	18.70	28.10	24.90	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 8:00 AM	201.00	4.00	25.30	18.40	0.00	18.40	28.40	25.30	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 8:15 AM	199.00	4.30	25.70	19.50	0.00	19.50	29.50	25.70	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 8:30 AM	188.00	3.60	26.20	19.60	0.00	19.60	28.50	26.20	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 8:45 AM	197.00	4.70	25.90	18.90	0.00	18.90	28.30	25.90	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 9:00 AM	184.00	3.90	26.10	19.90	0.00	19.90	29.20	26.10	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 9:15 AM	201.00	4.50	26.10	20.30	0.00	20.30	29.50	26.10	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 9:30 AM	230.00	4.50	26.20	20.10	0.00	20.10	29.70	26.20	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 9:45 AM	192.00	3.60	27.50	20.70	0.00	20.70	30.10	27.50	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 10:00 AM	202.00	3.90	26.80	21.10	0.00	21.10	29.80	26.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 10:15 AM	185.00	2.90	26.60	21.30	0.00	21.30	30.40	26.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 10:30 AM	206.00	2.80	26.10	21.90	0.00	21.90	30.30	26.10	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 10:45 AM	168.00	2.50	30.00	7.90	0.00	21.50	30.00	24.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 11:00 AM	224.00	2.70	25.70	22.80	0.00	22.80	29.30	25.70	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 11:15 AM	229.00	4.20	25.50	23.00	0.00	23.00	29.50	25.50	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 11:30 AM	229.00	2.90	24.00	24.20	0.20	24.20	29.70	24.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 11:45 AM	254.00	3.90	25.40	24.20	0.00	24.20	31.90	25.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 12:00 PM	233.00	3.40	25.10	25.90	0.80	25.90	31.20	25.10	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 12:15 PM	227.00	3.50	23.40	24.90	1.50	24.90	30.90	23.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 12:30 PM	262.00	1.30	24.10	25.20	1.10	25.20	31.90	24.10	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 12:45 PM	167.00	1.20	31.70	7.90	0.00	26.70	31.70	25.10	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 1:00 PM	351.00	1.00	7.90	33.90	26.00	26.80	33.90	25.30	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 1:15 PM	325.00	0.90	7.90	37.20	29.30	28.70	37.20	29.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 1:30 PM	206.00	1.30	30.30	33.70	3.40	33.70	39.50	30.30	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 1:45 PM	207.00	1.50	26.90	31.00	4.10	31.00	35.90	26.90	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 2:00 PM	97.00	0.40	34.10	7.90	0.00	31.30	34.10	26.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 2:15 PM	170.00	4.00	30.60	7.90	0.00	31.00	30.60	21.90	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 2:30 PM	199.00	4.80	20.60	32.00	11.40	32.00	29.80	20.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 2:45 PM	175.00	4.10	29.00	7.90	0.00	33.90	29.00	21.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 3:00 PM	219.00	4.00	21.80	34.00	12.20	34.00	30.40	21.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 3:15 PM	246.00	3.10	21.60	34.30	12.70	34.30	30.40	21.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 3:30 PM	276.00	1.50	7.90	32.20	24.30	39.40	32.20	24.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 3:45 PM	16.00	1.60	37.40	24.80	0.00	37.40	33.20	24.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 4:00 PM	31.00	2.70	36.90	28.10	0.00	36.90	33.80	28.10	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 4:15 PM	99.00	1.20	37.50	7.90	0.00	37.90	37.50	32.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 4:30 PM	132.00	2.60	39.70	7.90	0.00	39.30	39.70	33.20	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 4:45 PM	106.00	1.50	44.40	7.90	0.00	45.00	44.40	34.10	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 5:00 PM	171.00	0.30	44.90	7.90	0.00	42.80	44.90	35.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 5:15 PM	226.00	2.60	40.20	45.10	4.90	45.10	43.90	40.20	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 5:30 PM	233.00	3.70	45.40	43.80	0.00	43.80	52.30	45.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 5:45 PM	218.00	4.50	49.00	47.20	0.00	47.20	46.40	49.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 6:00 PM	212.00	4.60	45.70	42.90	0.00	42.90	48.90	45.70	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 6:15 PM	227.00	4.60	53.40	41.70	0.00	41.70	47.80	53.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 6:30 PM	261.00	2.00	60.40	44.90	0.00	44.90	59.10	60.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 6:45 PM	250.00	3.00	70.90	48.30	0.00	48.30	72.40	70.90	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 7:00 PM	212.00	3.10	73.90	55.30	0.00	55.30	80.80	73.90	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 7:15 PM	236.00	3.70	77.40	54.80	0.00	54.80	81.90	77.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 7:30 PM	231.00	3.80	78.80	55.20	0.00	55.20	81.20	78.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 7:45 PM	222.00	2.90	75.90	51.30	0.00	51.30	81.20	75.90	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 8:00 PM	203.00	3.90	72.20	47.40	0.00	47.40	76.70	72.20	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 8:15 PM	198.00	2.40	72.20	47.40	0.00	47.40	76.70	72.20	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 8:30 PM	257.00	1.40	68.80	40.80	0.00	40.80	65.90	68.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 8:45 PM	189.00	1.70	67.40	36.80	0.00	36.80	61.80	67.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 9:00 PM	206.00	1.50	66.00	37.20	0.00	37.20	61.40	66.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 9:15 PM	218.00	1.70	70.70	38.90	0.00	38.90	62.90	70.70	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 9:30 PM	232.00	1.90	74.20	40.60	0.00	40.60	67.70	74.20	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 9:45 PM	256.00	2.10	81.90	41.20	0.00	41.20	69.70	81.90	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 10:00 PM	281.00	1.20	7.90	72.20	64.30	43.00	72.20	86.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 10:15 PM	228.00	1.50	96.20	43.60	0.00	43.60	73.20	96.20	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 10:30 PM	265.00	1.30	102.70	43.30	0.00	43.30	75.60	102.70	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 10:45 PM	242.00	1.50	113.90	44.20	0.00	44.20	79.80	113.90	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 11:00 PM	244.00	1.80	112.70	45.70	0.00	45.70	83.10	112.70	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 11:15 PM	245.00	1.60	121.30	45.60	0.00	45.60	85.30	121.30	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 11:30 PM	215.00	1.40	135.90	48.40	0.00	48.40	88.20	135.90	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/14 11:45 PM	215.00	1.90	142.40	50.10	0.00	50.10	91.60	142.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 12:00 AM	204.00	2.60	143.00	50.60	0.00	50.60	95.40	143.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 12:15 AM	194.00	2.70	141.50	50.10	0.00	50.10	99.70	141.50	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 12:30 AM	203.00	2.00	143.90	48.50	0.00	48.50	99.40	143.90	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 12:45 AM	206.00	2.70	149.60	50.50	0.00	50.50	93.20	149.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 1:00 AM	215.00	2.10	156.70	45.10	0.00	45.10	93.50	156.70	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 1:15 AM	215.00	2.20	171.30	46.60	0.00	46.60	96.00	171.30	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 1:30 AM	214.00	2.50	176.20	44.10	0.00	44.10	96.30	176.20	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Retrieved from www.indianaharbordredge.com
on 8/15/2014 3:19 PM

US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 2014
(note: weather station malfunction between 7/1 and 7/15)

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)							Naphthalene (µg/m³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
7/27/14 1:45 AM	202.00	1.80	179.30	43.90	0.00	43.90	102.60	179.30	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 2:00 AM	210.00	1.30	182.20	43.90	0.00	43.90	106.80	182.20	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 2:15 AM	218.00	1.10	184.60	42.40	0.00	42.40	106.60	184.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 2:30 AM	230.00	0.50	184.60	42.40	0.00	42.40	106.60	184.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 2:45 AM	222.00	1.20	199.30	42.10	0.00	42.10	103.90	199.30	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 3:00 AM	218.00	1.10	206.70	41.80	0.00	41.80	102.60	206.70	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 3:15 AM	246.00	1.90	199.50	41.20	0.00	41.20	100.90	199.50	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 3:30 AM	209.00	1.80	179.30	42.30	0.00	42.30	101.40	179.30	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 3:45 AM	232.00	2.70	154.00	42.60	0.00	42.60	100.90	154.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 4:00 AM	228.00	1.70	163.60	42.30	0.00	42.30	101.00	163.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 4:15 AM	263.00	1.80	147.20	44.10	0.00	44.10	105.50	147.20	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 4:30 AM	229.00	2.60	184.60	44.90	0.00	44.90	109.00	184.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 4:45 AM	269.00	2.50	189.60	47.70	0.00	47.70	115.20	189.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 5:00 AM	267.00	1.80	293.80	49.60	0.00	49.60	149.80	293.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 5:15 AM	218.00	1.00	368.30	56.50	0.00	56.50	159.00	368.30	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 5:30 AM	273.00	1.60	7.90	153.40	145.50	57.30	153.40	390.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 5:45 AM	272.00	1.60	7.90	137.30	129.40	54.90	137.30	371.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 6:00 AM	261.00	2.10	273.10	41.00	0.00	41.00	115.90	273.10	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 6:15 AM	274.00	2.20	7.90	101.20	93.30	38.10	101.20	239.20	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 6:30 AM	261.00	1.90	183.60	34.70	0.00	34.70	92.60	183.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 6:45 AM	274.00	2.60	7.90	91.90	84.00	36.10	91.90	161.70	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 7:00 AM	260.00	2.90	194.10	36.40	0.00	36.40	96.10	194.10	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 7:15 AM	263.00	3.60	242.20	31.60	0.00	31.60	83.20	242.20	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 7:30 AM	255.00	3.10	230.00	0.00	0.00	0.00	78.30	230.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 7:45 AM	254.00	3.10	225.30	27.60	0.00	27.60	71.80	225.30	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 8:00 AM	253.00	2.40	185.60	27.60	0.00	27.60	51.80	185.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 8:15 AM	260.00	2.10	129.40	25.10	0.00	25.10	43.70	129.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 8:30 AM	297.00	3.10	7.90	40.60	32.70	25.90	40.60	100.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 8:45 AM	269.00	2.30	73.70	25.50	0.00	25.50	33.90	73.70	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 9:00 AM	301.00	2.60	14.80	29.10	14.30	24.30	29.10	53.10	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 9:15 AM	297.00	1.00	14.70	26.40	11.70	23.60	26.40	45.60	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 9:30 AM	280.00	2.20	12.90	24.00	11.10	22.40	24.00	37.30	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 9:45 AM	244.00	2.90	33.40	20.00	0.00	20.00	22.40	33.40	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 10:00 AM	269.00	1.90	30.20	16.80	0.00	16.80	17.00	30.20	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 10:15 AM	236.00	5.00	23.10	15.90	0.00	15.90	14.30	23.10	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 10:30 AM	257.00	3.50	19.20	15.40	0.00	15.40	10.50	19.20	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 10:45 AM	276.00	3.10	11.10	6.20	0.00	13.60	6.20	15.30	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 11:00 AM	285.00	3.90	11.10	3.90	0.00	11.90	3.90	8.70	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 11:15 AM	291.00	4.00	11.10	2.60	0.00	10.70	2.60	10.60	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 11:30 AM	253.00	3.70	10.80	11.80	1.00	11.80	2.40	10.80	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 11:45 AM	253.00	4.40	10.60	10.80	0.20	10.80	2.00	10.60	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 12:00 PM	262.00	5.40	8.40	11.00	2.60	11.00	1.90	8.40	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 12:15 PM	290.00	4.60	11.10	1.60	0.00	10.20	1.60	7.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 12:30 PM	261.00	5.80	6.70	9.90	3.20	9.90	1.50	6.70	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 12:45 PM	246.00	4.90	5.20	9.20	4.00	9.20	2.00	5.20	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 1:00 PM	257.00	6.80	6.10	8.90	2.80	8.90	1.40	6.10	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 1:15 PM	261.00	5.90	5.70	9.70	4.00	9.70	1.30	5.70	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 1:30 PM	262.00	9.20	4.00	8.90	4.90	8.90	0.90	4.00	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 1:45 PM	260.00	7.80	5.50	8.20	2.70	8.20	1.00	5.50	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 2:00 PM	264.00	7.80	5.10	0.00	0.00	0.00	1.00	5.10	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 2:15 PM	263.00	7.40	7.00	11.40	4.40	11.40	1.10	7.00	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 2:30 PM	259.00	8.30	9.40	10.60	1.20	10.60	1.40	9.40	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 2:45 PM	271.00	9.50	11.10	1.10	0.00	10.20	1.10	6.60	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 3:00 PM	267.00	7.10	9.50	9.60	0.10	9.60	0.90	9.50	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 3:15 PM	266.00	7.50	6.10	7.00	0.90	7.00	1.00	6.10	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 3:30 PM	263.00	9.60	5.30	6.50	1.20	6.50	0.90	5.30	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 3:45 PM	288.00	9.60	11.10	1.20	0.00	7.10	1.20	9.30	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 4:00 PM	280.00	8.50	11.10	0.80	0.00	8.40	0.80	6.80	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 4:15 PM	308.00	8.50	11.10	0.90	0.00	5.90	0.90	6.30	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 4:30 PM	300.00	8.90	11.10	0.80	0.00	6.70	0.80	7.20	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 4:45 PM	318.00	7.90	11.10	0.70	0.00	7.80	0.70	6.80	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 5:00 PM	293.00	9.40	11.10	0.90	0.00	8.40	0.90	8.40	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 5:15 PM	305.00	9.00	11.10	0.80	0.00	6.60	0.80	7.00	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 5:30 PM	293.00	6.60	11.10	0.80	0.00	7.70	0.80	7.00	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 5:45 PM	307.00	8.00	11.10	0.60	0.00	6.10	0.60	5.80	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 6:00 PM	328.00	7.20	11.10	0.60	0.00	5.80	0.60	5.40	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 6:15 PM	306.00	7.80	11.10	0.70	0.00	6.10	0.70	6.80	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 6:30 PM	297.00	7.90	11.10	0.80	0.00	5.60	0.80	8.00	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 6:45 PM	317.00	9.90	11.10	0.60	0.00	7.30	0.60	6.80	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 7:00 PM	301.00	7.20	11.10	0.70	0.00	6.30	0.70	6.70	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 7:15 PM	303.00	6.10	11.10	0.80	0.00	6.10	0.80	7.30	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 7:30 PM	306.00	6.60	11.10	0.70	0.00	7.20	0.70	7.30	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 7:45 PM	301.00	5.40	11.10	0.90	0.00	10.90	0.90	9.60	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 8:00 PM	309.00	7.70	11.10	0.80	0.00	7.10	0.80	8.10	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 8:15 PM	305.00	4.70	11.10	0.90	0.00	3.60	0.90	6.60	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 8:30 PM	325.00	7.40	11.10	1.20	0.00	3.30	1.20	5.70	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 8:45 PM	329.00	5.90	11.10	1.50	0.00	3.90	1.50	6.40	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 9:00 PM	329.00	4.20	11.10	2.00	0.00	4.40	2.00	8.00	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 9:15 PM	13.00	8.90	0.00	8.00	0.00	0.00	2.20	8.00	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 9:30 PM	351.00	8.30	11.10	1.90	0.00	3.30	1.90	6.30	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 9:45 PM	355.00	5.40	11.10	1.50	0.00	2.60	1.50	5.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 10:00 PM	354.00	7.20	11.10	1.60	0.00	3.50	1.60	6.40	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 10:15 PM	3.00	9.80	5.60	7.10	1.50	5.60	1.80	7.10	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 10:30 PM	5.00	13.10	6.70	17.90	11.20	6.70	4.60	17.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 10:45 PM	359.00	11.50	11.10	5.20	0.00	4.10	5.20	19.30	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 11:00 PM	0.00	10.60	3.70	19.90	16.20	3.70	5.50	19.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 11:15 PM	359.00	10.70	11.10	6.90	0.00	8.70	6.90	22.00	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 11:30 PM	3.00	10.70	8.20	19.30	11.10	8.20	8.10	19.30	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/14 11:45 PM	2.00	13.00	6.30	18.90	12.60	6.30	7.80	18.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 12:00 AM	359.00	13.60	11.10	7.90	0.00	10.20	7.90	20.20	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 12:15 AM	1.00	13.30	10.90	21.70	10.80	10.90	8.40	21.70	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 12:30 AM	359.00	14.00	11.10	8.30	0.00	10.20	8.30	22.10	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 12:45 AM	356.00	13.20	11.10	8.30	0.00	12.00	8.30	22.40	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 1:00 AM	357.00	11.60	11.10	7.00	0.00	12.60	7.00	19.60	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 1:15 AM	0.00	14.70	8.00	16.60	8.60	8.00	4.20	16.60	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 1:30 AM	358.00	13.10	11.10	3.60	0.00	6.70	3.60	16.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 1:45 AM	350.00	12.10	11.10	3.40	0.00	6.10	3.40	16.10	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 2:00 AM	356.00	11.80	11.10	3.10	0.00	0.00	3.10	15.30	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 2:15 AM	0.00	12.40	5.50	15.20	9.70	5.50	2.90	15.20	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 2:30 AM	0.00	12.00	5.30	14.90	9.60	5.30	2.60	14.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 2:45 AM	357.00	11.90	11.10	2.70	0.00	5.60	2.70	15.40	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Retrieved from www.indianaharbordredge.com
on 8/15/2014 3:19 PM

US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 2014
(note: weather station malfunction between 7/1 and 7/15)

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)							Naphthalene (µg/m³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
7/28/14 3:00 AM	0.00	11.30	5.60	18.00	12.40	5.60	3.20	18.00	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 3:15 AM	358.00	9.80	11.10	3.20	0.00	5.60	3.20	18.70	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 3:30 AM	357.00	11.50	11.10	2.80	0.00	4.80	2.80	18.30	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 3:45 AM	358.00	8.80	11.10	2.70	0.00	4.60	2.70	17.30	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 4:00 AM	0.00	10.00	3.90	17.60	13.70	3.90	2.50	17.60	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 4:15 AM	355.00	11.40	11.10	2.80	0.00	3.50	2.80	17.10	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 4:30 AM	353.00	12.10	11.10	2.60	0.00	4.20	2.60	17.10	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 4:45 AM	353.00	10.40	11.10	2.50	0.00	3.80	2.50	16.80	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 5:00 AM	354.00	9.30	11.10	2.70	0.00	3.20	2.70	17.10	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 5:15 AM	355.00	9.90	11.10	2.30	0.00	3.70	2.30	16.60	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 5:30 AM	350.00	6.40	11.10	2.40	0.00	3.40	2.40	17.50	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 5:45 AM	346.00	6.00	11.10	2.40	0.00	0.00	2.40	16.80	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 6:00 AM	340.00	4.90	11.10	2.70	0.00	3.70	2.70	16.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 6:15 AM	349.00	7.40	11.10	2.90	0.00	3.60	2.90	16.30	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 6:30 AM	347.00	6.30	11.10	2.90	0.00	4.30	2.90	16.50	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 6:45 AM	335.00	5.70	11.10	2.80	0.00	4.30	2.80	16.40	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 7:00 AM	355.00	7.30	11.10	2.90	0.00	3.80	2.90	16.40	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 7:15 AM	351.00	9.30	11.10	3.30	0.00	3.90	3.30	15.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 7:30 AM	341.00	5.60	11.10	3.40	0.00	4.20	3.40	16.10	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 7:45 AM	347.00	6.10	11.10	3.40	0.00	4.20	3.40	16.20	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 8:00 AM	355.00	8.90	11.10	3.30	0.00	3.80	3.30	15.70	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 8:15 AM	344.00	7.00	11.10	3.10	0.00	4.10	3.10	15.20	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 8:30 AM	349.00	8.20	11.10	3.10	0.00	4.30	3.10	14.70	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 8:45 AM	358.00	10.70	11.10	3.20	0.00	4.50	3.20	13.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 9:00 AM	359.00	10.50	11.10	3.40	0.00	4.80	3.40	13.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 9:15 AM	1.00	10.90	4.80	14.20	9.40	4.80	3.40	14.20	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 9:30 AM	349.00	11.00	11.10	3.40	0.00	4.20	3.40	14.30	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 9:45 AM	350.00	10.70	11.10	3.40	0.00	4.10	3.40	12.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 10:00 AM	350.00	11.10	11.10	3.10	0.00	4.60	3.10	12.80	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 10:15 AM	353.00	10.90	11.10	2.80	0.00	6.70	2.80	11.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 10:30 AM	352.00	9.20	2.30	2.90	0.60	5.60	2.90	11.90	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 10:45 AM	358.00	11.20	3.60	3.10	0.00	0.00	3.10	12.30	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 11:00 AM	358.00	10.80	2.40	3.10	0.70	6.10	3.10	11.50	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 11:15 AM	353.00	12.00	2.60	3.20	0.60	5.00	3.20	11.40	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 11:30 AM	4.00	11.60	4.00	10.90	6.90	4.00	3.20	10.90	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 11:45 AM	357.00	11.00	2.40	3.10	0.70	3.90	3.10	10.70	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 12:00 PM	355.00	11.40	1.20	3.30	2.10	4.40	3.30	10.90	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 12:15 PM	5.00	12.80	7.00	10.30	3.30	7.00	0.00	10.30	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 12:30 PM	0.00	12.20	0.00	10.30	0.00	0.00	2.80	10.30	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 12:45 PM	355.00	12.60	5.80	2.80	0.00	4.70	2.80	9.90	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 1:00 PM	359.00	9.60	2.00	3.10	1.10	6.40	3.10	10.40	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 1:15 PM	3.00	10.50	6.20	9.50	3.30	6.20	2.50	9.50	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 1:30 PM	353.00	10.20	1.40	2.30	0.90	2.70	2.30	8.90	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 1:45 PM	356.00	12.30	0.50	2.30	1.80	3.40	2.30	9.30	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 2:00 PM	4.00	11.70	2.10	8.10	6.00	2.10	0.00	8.10	-0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 2:15 PM	355.00	9.80	1.60	2.20	0.60	3.90	2.20	8.30	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 2:30 PM	357.00	11.70	-0.80	2.30	3.10	1.60	2.30	8.20	-0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 2:45 PM	352.00	10.90	1.30	1.90	0.60	5.10	1.90	7.80	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 3:00 PM	5.00	9.10	3.20	7.80	4.60	3.20	2.50	7.80	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 3:15 PM	0.00	8.60	3.60	7.30	3.70	3.60	2.30	7.30	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 3:30 PM	359.00	8.50	0.10	1.90	1.80	3.00	1.90	7.40	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 3:45 PM	354.00	9.20	1.20	2.00	0.80	4.50	2.00	6.90	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 4:00 PM	5.00	7.70	4.00	6.70	2.70	4.00	3.00	6.70	-0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 4:15 PM	5.00	7.60	3.10	6.60	3.50	3.10	2.10	6.60	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 4:30 PM	5.00	8.70	4.80	6.90	2.10	4.80	3.00	6.90	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 4:45 PM	7.00	6.60	3.20	6.80	3.60	3.20	2.40	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 5:00 PM	7.00	6.60	2.90	6.50	3.60	2.90	2.40	6.50	-0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 5:15 PM	350.00	6.30	-0.30	2.40	2.70	3.70	2.40	6.30	-0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 5:30 PM	8.00	6.80	2.80	6.30	3.50	2.80	2.40	6.30	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 5:45 PM	0.00	5.10	2.60	7.00	4.40	2.60	2.40	7.00	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 6:00 PM	13.00	5.40	7.00	7.00	0.00	7.00	2.40	7.00	-0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 6:15 PM	13.00	6.70	0.00	8.30	0.00	0.00	2.40	8.30	-0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 6:30 PM	24.00	6.40	4.30	8.80	4.50	4.30	2.40	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 6:45 PM	18.00	6.70	1.50	9.00	7.50	1.50	2.40	9.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 7:00 PM	24.00	5.00	0.00	8.30	0.00	0.00	2.40	8.30	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 7:15 PM	27.00	5.40	0.00	8.60	0.00	0.00	2.40	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 7:30 PM	33.00	3.80	1.20	11.00	9.80	1.20	2.40	11.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 7:45 PM	33.00	3.70	1.20	13.10	11.90	1.20	2.40	13.10	-0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 8:00 PM	32.00	4.10	6.30	13.40	7.10	6.30	2.40	13.40	-0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 8:15 PM	23.00	2.80	0.00	12.40	0.00	0.00	2.40	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 8:30 PM	52.00	2.80	1.80	13.60	11.80	1.80	2.40	13.60	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 8:45 PM	41.00	1.50	1.60	13.30	11.70	1.60	2.40	13.30	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 9:00 PM	32.00	1.70	1.40	16.30	14.90	1.40	2.40	16.30	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 9:15 PM	301.00	0.60	2.20	2.40	0.20	0.00	2.40	16.90	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 9:30 PM	325.00	0.80	8.90	2.40	0.00	3.70	2.40	15.80	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 9:45 PM	207.00	1.10	15.60	21.70	6.10	21.70	2.40	15.60	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 10:00 PM	262.00	0.70	16.00	4.10	0.00	4.10	2.40	16.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 10:15 PM	214.00	1.20	14.90	5.20	0.00	5.20	2.40	14.90	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 10:30 PM	231.00	0.60	15.00	2.80	0.00	2.80	2.40	15.00	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 10:45 PM	236.00	0.80	16.90	4.00	0.00	4.00	2.40	16.90	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 11:00 PM	202.00	1.30	16.10	5.30	0.00	5.30	2.40	16.10	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 11:15 PM	209.00	1.50	15.50	3.30	0.00	3.30	2.40	15.50	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 11:30 PM	195.00	1.10	15.40	3.80	0.00	3.80	2.40	15.40	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/14 11:45 PM	213.00	1.80	16.80	3.40	0.00	3.40	2.40	16.80	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 12:00 AM	153.00	0.90	2.40	1.20	0.00	2.70	2.40	16.10	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 12:15 AM	178.00	1.20	2.40	1.60	0.00	6.40	2.40	17.40	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 12:30 AM	169.00	0.80	2.40	3.50	1.10	7.20	2.40	17.60	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 12:45 AM	201.00	1.90	16.30	8.50	0.00	8.50	2.40	16.30	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 1:00 AM	204.00	1.80	15.80	10.40	0.00	10.40	2.40	15.80	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 1:15 AM	249.00	1.20	14.60	10.80	0.00	10.80	2.40	14.60	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 1:30 AM	205.00	0.90	14.00	12.70	0.00	12.70	2.40	14.00	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 1:45 AM	198.00	1.10	14.90	13.50	0.00	13.50	2.40	14.90	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 2:00 AM	209.00	1.20	15.40	15.50	0.10	15.50	2.40	15.40	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 2:15 AM	212.00	1.90	23.90	24.40	0.50	24.40	2.40	23.90	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 2:30 AM	192.00	1.60	30.90	36.90	6.00	36.90	2.40	30.90	35.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 2:45 AM	169.00	1.80	2.40	25.80	23.40	27.80	2.40	26.10	25.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 3:00 AM	204.00	1.70	26.10	24.20	0.00	24.20	2.40	26.10	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 3:15 AM	208.00	1.80	21.80	22.00	0.20	22.00	2.40	21.80	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 3:30 AM	212.00	1.20	19.20	19.50	0.30	19.50	2.40	19.20	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 3:45 AM	206.00	1.30	19.70	0.00	0.00	0.00	2.40	19.70	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 4:00 AM	210.00	1.50	19.20	15.70	0.00	15.70	2.40	19.20	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Retrieved from www.indianaharbordredge.com
on 8/15/2014 3:19 PM

US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 2014
(note: weather station malfunction between 7/1 and 7/15)

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)							Naphthalene (µg/m³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
7/29/14 4:15 AM	189.00	1.20	19.30	12.20	0.00	12.20	2.40	19.30	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 4:30 AM	177.00	1.50	2.40	4.50	2.10	11.60	2.40	19.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 4:45 AM	200.00	1.60	17.20	11.20	0.00	11.20	2.40	17.20	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 5:00 AM	191.00	1.20	16.80	11.80	0.00	11.80	2.40	16.80	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 5:15 AM	193.00	1.40	18.10	13.10	0.00	13.10	2.40	18.10	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 5:30 AM	203.00	1.50	19.60	12.50	0.00	12.50	2.40	19.60	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 5:45 AM	232.00	2.50	19.80	13.90	0.00	13.90	2.40	19.80	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 6:00 AM	233.00	2.60	23.60	15.50	0.00	15.50	2.40	23.60	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 6:15 AM	217.00	2.10	25.30	18.00	0.00	18.00	2.40	25.30	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 6:30 AM	220.00	1.90	29.00	22.80	0.00	22.80	2.40	29.00	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 6:45 AM	226.00	2.50	30.00	23.50	0.00	23.50	2.40	30.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 7:00 AM	222.00	2.90	30.80	24.40	0.00	24.40	2.40	30.80	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 7:15 AM	226.00	2.70	32.50	25.50	0.00	25.50	2.40	32.50	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 7:30 AM	240.00	2.60	31.80	26.70	0.00	26.70	2.40	31.80	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 7:45 AM	223.00	3.20	28.30	24.80	0.00	24.80	2.40	28.30	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 8:00 AM	247.00	3.00	27.60	25.10	0.00	25.10	2.40	27.60	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 8:15 AM	256.00	3.50	24.90	22.20	0.00	22.20	2.40	24.90	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 8:30 AM	269.00	2.90	22.10	21.60	0.00	21.60	2.40	22.10	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 8:45 AM	267.00	2.10	21.90	27.20	5.30	27.20	2.40	21.90	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 9:00 AM	271.00	1.90	13.80	2.40	0.00	29.60	2.40	22.90	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 9:15 AM	253.00	1.90	20.70	47.10	26.40	47.10	2.40	20.70	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 9:30 AM	286.00	3.10	16.90	2.40	0.00	30.40	2.40	20.20	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 9:45 AM	288.00	2.10	16.50	2.40	0.00	35.50	2.40	20.30	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 10:00 AM	282.00	3.90	17.00	2.40	0.00	30.30	2.40	22.10	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 10:15 AM	273.00	2.40	17.50	2.40	0.00	27.20	2.40	21.10	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 10:30 AM	287.00	2.40	15.90	2.40	0.00	26.40	2.40	22.30	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 10:45 AM	268.00	3.50	21.10	24.10	3.00	24.10	2.40	21.10	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 11:00 AM	273.00	3.20	15.40	2.40	0.00	24.90	2.40	20.40	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 11:15 AM	286.00	4.20	14.30	2.40	0.00	21.60	2.40	22.40	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 11:30 AM	282.00	4.20	16.80	2.40	0.00	20.40	2.40	19.30	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 11:45 AM	301.00	6.40	15.80	2.40	0.00	22.60	2.40	17.80	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 12:00 PM	332.00	4.10	16.60	2.40	0.00	20.00	2.40	17.60	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 12:15 PM	0.00	5.70	28.10	20.00	0.00	28.10	2.40	20.00	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 12:30 PM	0.00	4.80	30.90	20.10	0.00	30.90	2.40	20.10	25.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 12:45 PM	25.00	5.10	33.60	19.70	0.00	33.60	2.40	19.70	35.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 1:00 PM	24.00	5.60	29.60	20.80	0.00	29.60	2.40	20.80	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 1:15 PM	5.00	4.90	31.70	20.50	0.00	31.70	2.40	20.50	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 1:30 PM	22.00	4.10	30.90	19.80	0.00	30.90	2.40	19.80	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 1:45 PM	112.00	3.00	2.40	26.60	24.20	31.40	2.40	23.20	26.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 2:00 PM	86.00	1.30	29.80	23.80	0.00	29.80	23.10	23.80	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 2:15 PM	103.00	2.70	24.00	19.70	0.00	28.50	24.00	24.20	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 2:30 PM	37.00	1.80	28.10	24.70	0.00	28.10	23.80	24.70	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 2:45 PM	68.00	2.20	32.00	24.20	0.00	32.00	31.20	24.20	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 3:00 PM	89.00	2.30	34.10	28.50	0.00	34.10	27.30	28.50	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 3:15 PM	105.00	2.70	36.00	28.20	0.00	51.00	36.00	27.70	28.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 3:30 PM	134.00	2.80	35.80	25.60	0.00	41.80	35.80	28.70	25.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 3:45 PM	110.00	2.80	32.60	29.40	0.00	44.70	32.60	28.70	29.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 4:00 PM	117.00	3.10	42.30	27.40	0.00	47.30	42.30	27.30	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 4:15 PM	111.00	3.10	41.40	30.40	0.00	60.00	41.40	37.50	30.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 4:30 PM	83.00	3.20	40.30	48.30	8.00	40.30	49.50	48.30	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 4:45 PM	105.00	2.60	45.80	41.30	0.00	67.30	45.80	41.10	41.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 5:00 PM	158.00	2.10	70.00	45.40	0.00	58.40	70.00	46.00	45.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 5:15 PM	118.00	1.90	59.10	32.10	0.00	58.90	59.10	47.80	32.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 5:30 PM	158.00	1.50	42.80	19.10	0.00	32.60	42.80	39.30	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 5:45 PM	98.00	1.60	0.00	18.00	0.00	42.60	0.00	47.60	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 6:00 PM	228.00	2.60	43.00	30.50	0.00	30.50	58.80	43.00	28.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 6:15 PM	286.00	3.50	35.90	61.30	25.40	32.80	61.30	37.10	35.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 6:30 PM	268.00	4.10	35.40	82.90	47.50	82.90	62.20	35.40	65.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 6:45 PM	258.00	4.20	29.80	51.10	21.30	51.10	31.80	29.80	28.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 7:00 PM	244.00	3.90	30.30	62.60	32.30	62.60	55.00	30.30	34.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 7:15 PM	235.00	3.00	29.40	38.50	9.10	38.50	39.10	29.40	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 7:30 PM	234.00	4.00	24.50	29.60	5.10	29.60	31.40	24.50	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 7:45 PM	246.00	2.70	21.80	21.10	0.00	21.10	24.80	21.80	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 8:00 PM	228.00	3.40	22.00	20.70	0.00	20.70	24.40	22.00	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 8:15 PM	251.00	2.50	23.20	21.10	0.00	21.10	24.80	23.20	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 8:30 PM	198.00	1.70	24.10	21.20	0.00	21.20	25.80	24.10	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 8:45 PM	210.00	2.00	24.30	21.50	0.00	21.50	25.30	24.30	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 9:00 PM	216.00	1.40	24.40	20.40	0.00	20.40	25.50	24.40	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 9:15 PM	210.00	2.00	24.90	20.00	0.00	20.00	26.40	24.90	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 9:30 PM	273.00	2.70	10.80	29.10	18.30	19.60	29.10	25.10	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 9:45 PM	250.00	1.70	26.30	21.60	0.00	21.60	29.30	26.30	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 10:00 PM	196.00	1.30	26.20	21.10	0.00	21.10	29.30	26.20	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 10:15 PM	223.00	2.10	25.80	21.30	0.00	21.30	30.00	25.80	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 10:30 PM	202.00	2.20	25.60	20.20	0.00	20.20	30.00	25.60	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 10:45 PM	211.00	2.30	25.00	19.90	0.00	19.90	31.00	25.00	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 11:00 PM	339.00	4.10	11.50	31.10	19.60	19.80	31.10	25.30	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 11:15 PM	352.00	8.40	12.70	31.90	19.20	22.30	31.90	26.00	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 11:30 PM	355.00	8.20	14.80	30.80	16.00	21.10	30.80	25.40	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/14 11:45 PM	4.00	5.70	20.50	25.60	5.10	20.50	30.80	25.60	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 12:00 AM	317.00	3.00	12.50	31.60	19.10	20.70	31.60	25.50	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 12:15 AM	352.00	2.20	7.80	28.70	20.90	14.80	28.70	22.70	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 12:30 AM	237.00	1.00	22.20	12.70	0.00	12.70	26.20	22.20	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 12:45 AM	222.00	1.20	19.80	9.60	0.00	9.60	24.10	19.80	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 1:00 AM	272.00	1.40	4.20	19.80	15.60	10.10	19.80	19.40	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 1:15 AM	230.00	2.00	19.30	9.00	0.00	9.00	22.10	19.30	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 1:30 AM	235.00	1.70	20.30	9.10	0.00	9.10	22.40	20.30	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 1:45 AM	266.00	2.20	21.20	10.50	0.00	10.50	25.50	21.20	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 2:00 AM	263.00	2.40	21.50	10.90	0.00	10.90	28.20	21.50	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 2:15 AM	268.00	1.40	21.20	12.00	0.00	12.00	28.70	21.20	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 2:30 AM	191.00	0.50	21.60	12.40	0.00	12.40	29.20	21.60	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 2:45 AM	234.00	1.40	20.40	12.10	0.00	12.10	29.00	20.40	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 3:00 AM	254.00	2.30	20.20	12.20	0.00	12.20	30.10	20.20	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 3:15 AM	253.00	1.00	18.20	18.10	0.00	18.10	24.70	18.20	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 3:30 AM	254.00	1.40	17.80	16.20	0.00	16.20	24.40	17.80	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 3:45 AM	248.00	1.20	18.00	14.80	0.00	14.80	26.20	18.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 4:00 AM	243.00	1.20	18.00	16.00	0.00	16.00	27.10	18.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 4:15 AM	247.00	1.00	17.60	16.80	0.00	16.80	26.70	17.60	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 4:30 AM	210.00	0.70	17.70	17.90	0.20	17.90	25.70	17.70	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 4:45 AM	259.00	2.20	17.80	17.70	0.00	17.70	25.90	17.80	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 5:00 AM	195.00	1.10	17.80	21.30	3.50	21.30	26.30	17.80	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 5:15 AM	219.00	1.30	18.00	20.10	2.10	20.10	26.00	18.00	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Retrieved from www.indianaharbordredge.com
on 8/15/2014 3:19 PM

US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 2014
(note: weather station malfunction between 7/1 and 7/15)

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)							Naphthalene (µg/m³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
7/30/14 5:30 AM	255.00	1.70	18.20	17.40	0.00	17.40	26.30	18.20	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 5:45 AM	226.00	1.40	18.90	17.70	0.00	17.70	26.60	18.90	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 6:00 AM	247.00	1.70	19.20	18.40	0.00	18.40	25.50	19.20	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 6:15 AM	225.00	1.30	18.90	18.50	0.00	18.50	24.30	18.90	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 6:30 AM	227.00	1.30	18.90	18.50	0.00	18.50	24.30	18.90	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 6:45 AM	220.00	1.10	20.10	19.30	0.00	19.30	25.20	20.10	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 7:00 AM	269.00	1.80	20.60	20.80	0.20	20.80	25.30	20.60	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 7:15 AM	261.00	2.50	21.00	20.40	0.00	20.40	25.80	21.00	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 7:30 AM	265.00	2.00	21.00	20.90	0.00	20.90	26.90	21.00	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 7:45 AM	292.00	2.70	11.80	25.60	13.80	21.70	25.60	20.80	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 8:00 AM	273.00	2.50	12.50	25.90	13.40	22.50	25.90	21.10	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 8:15 AM	289.00	3.20	12.00	27.70	15.70	23.70	27.70	20.90	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 8:30 AM	267.00	2.30	20.90	24.30	3.40	24.30	27.10	20.90	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 8:45 AM	263.00	2.70	20.80	22.40	1.60	22.40	28.70	20.80	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 9:00 AM	261.00	2.80	17.40	21.50	4.10	21.50	24.10	17.40	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 9:15 AM	286.00	3.10	14.70	23.20	8.50	23.60	23.20	15.70	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 9:30 AM	325.00	2.20	14.60	21.10	6.50	21.50	21.10	15.20	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 9:45 AM	307.00	1.60	16.20	21.80	5.60	22.50	21.80	15.10	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 10:00 AM	240.00	3.80	15.20	23.20	8.00	23.20	21.80	15.20	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 10:15 AM	231.00	2.40	14.60	23.10	8.50	23.10	21.80	14.60	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 10:30 AM	2.00	3.30	24.40	15.30	0.00	24.40	21.80	15.30	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 10:45 AM	21.00	1.80	24.90	15.70	0.00	24.90	21.80	15.70	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 11:00 AM	8.00	1.20	25.20	15.90	0.00	25.20	21.80	15.90	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 11:15 AM	311.00	0.70	14.50	21.80	7.30	22.20	21.80	14.50	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 11:30 AM	268.00	0.70	14.50	22.70	8.20	22.70	21.80	14.50	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 11:45 AM	290.00	2.30	17.40	21.80	4.40	20.20	21.80	15.00	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 12:00 PM	21.00	3.20	24.10	16.60	0.00	24.10	21.80	16.60	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 12:15 PM	103.00	0.40	21.80	18.00	0.00	23.40	21.80	17.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 12:30 PM	75.00	2.80	24.30	16.50	0.00	24.30	21.80	16.50	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 12:45 PM	49.00	2.90	24.20	17.40	0.00	24.20	21.80	17.40	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 1:00 PM	101.00	1.30	21.80	23.10	1.30	25.00	21.80	16.70	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 1:15 PM	93.00	2.30	21.80	21.00	0.00	29.50	21.80	21.90	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 1:30 PM	97.00	2.80	21.80	19.90	0.00	34.00	21.80	24.60	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 1:45 PM	70.00	3.20	51.90	30.80	0.00	51.90	21.80	30.80	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 2:00 PM	82.00	3.40	26.80	35.30	8.50	26.80	21.80	35.30	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 2:15 PM	21.00	4.90	55.20	31.60	0.00	55.20	21.80	31.60	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 2:30 PM	23.00	5.70	62.30	39.70	0.00	62.30	36.00	39.70	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 2:45 PM	25.00	4.50	63.30	35.70	0.00	63.30	48.20	35.70	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 3:00 PM	22.00	5.20	69.00	50.00	0.00	69.00	57.00	50.00	37.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 3:15 PM	19.00	6.50	39.50	53.90	14.40	39.50	62.70	53.90	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 3:30 PM	22.00	5.90	69.60	42.30	0.00	69.60	66.50	42.30	25.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 3:45 PM	29.00	4.50	49.40	51.30	1.90	49.40	50.90	51.30	25.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 4:00 PM	18.00	6.80	36.50	45.50	9.00	36.50	56.50	45.50	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 4:15 PM	15.00	7.10	35.10	44.90	9.80	35.10	46.80	44.90	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 4:30 PM	19.00	6.30	35.10	50.90	15.80	35.10	50.50	50.90	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 4:45 PM	27.00	5.60	35.60	48.80	13.20	35.60	51.80	48.80	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 5:00 PM	22.00	4.80	32.50	62.00	29.50	32.50	50.20	62.00	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 5:15 PM	15.00	2.90	35.70	48.50	12.80	35.70	53.10	48.50	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 5:30 PM	38.00	3.90	39.40	51.60	12.20	39.40	58.90	51.60	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 5:45 PM	28.00	4.20	44.60	55.00	10.40	44.60	62.70	55.00	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 6:00 PM	35.00	4.30	46.50	59.30	12.80	46.50	67.80	59.30	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 6:15 PM	47.00	3.90	58.80	63.60	4.80	58.80	60.60	63.60	24.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 6:30 PM	41.00	4.30	47.10	54.40	7.30	47.10	54.20	54.40	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 6:45 PM	46.00	3.50	41.50	41.20	0.00	41.50	47.30	41.20	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 7:00 PM	61.00	2.60	56.10	49.70	0.00	56.10	48.60	49.70	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 7:15 PM	63.00	2.20	27.70	40.00	12.30	27.70	38.90	40.00	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 7:30 PM	102.00	1.80	37.00	23.30	0.00	41.10	37.00	45.20	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 7:45 PM	59.00	2.40	31.10	39.10	8.00	31.10	37.40	39.10	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 8:00 PM	128.00	2.90	37.00	15.60	0.00	27.20	37.00	34.40	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 8:15 PM	120.00	3.10	56.00	15.30	0.00	31.70	56.00	40.60	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 8:30 PM	139.00	2.60	52.30	18.40	0.00	47.20	52.30	48.10	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 8:45 PM	125.00	2.50	56.90	23.20	0.00	49.30	56.90	50.70	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 9:00 PM	134.00	1.90	42.60	17.60	0.00	46.70	42.60	39.20	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 9:15 PM	160.00	1.80	37.60	20.40	0.00	34.10	37.60	39.10	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 9:30 PM	157.00	2.00	41.00	15.90	0.00	31.60	41.00	40.10	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 9:45 PM	123.00	1.90	41.50	14.70	0.00	29.00	41.50	41.00	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 10:00 PM	173.00	1.40	48.40	14.70	0.00	33.40	48.40	43.40	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 10:15 PM	162.00	1.70	51.00	14.50	0.00	29.40	51.00	46.50	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 10:30 PM	161.00	1.10	49.60	13.50	0.00	27.30	49.60	47.10	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 10:45 PM	171.00	1.50	53.00	13.70	0.00	29.40	53.00	48.90	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 11:00 PM	171.00	1.20	55.90	15.10	0.00	33.60	55.90	50.30	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 11:15 PM	167.00	1.60	55.70	15.90	0.00	35.00	55.70	50.30	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 11:30 PM	162.00	0.90	57.50	17.20	0.00	34.90	57.50	49.70	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/14 11:45 PM	235.00	0.20	53.10	34.50	0.00	34.50	60.00	53.10	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 12:00 AM	183.00	1.10	56.30	38.10	0.00	38.10	61.80	56.30	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 12:15 AM	194.00	0.80	57.20	50.30	0.00	50.30	60.70	57.20	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 12:30 AM	207.00	1.30	56.30	51.70	0.00	51.70	58.00	56.30	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 12:45 AM	182.00	1.30	51.60	43.00	0.00	43.00	54.50	51.60	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 1:00 AM	205.00	1.20	51.50	35.80	0.00	35.80	55.50	51.50	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 1:15 AM	196.00	1.70	51.70	40.60	0.00	40.60	56.10	51.70	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 1:30 AM	192.00	1.60	51.70	40.50	0.00	40.50	56.40	51.70	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 1:45 AM	220.00	1.00	0.00	48.90	0.00	48.90	60.20	0.00	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 2:00 AM	192.00	0.80	62.40	49.90	0.00	49.90	64.10	62.40	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 2:15 AM	195.00	1.50	62.70	52.60	0.00	52.60	67.40	62.70	26.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 2:30 AM	201.00	1.10	66.00	51.30	0.00	51.30	69.60	66.00	26.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 2:45 AM	217.00	1.00	59.30	51.50	0.00	51.50	63.70	59.30	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 3:00 AM	218.00	1.30	55.30	51.50	0.00	51.50	61.00	55.30	26.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 3:15 AM	207.00	1.90	55.20	48.80	0.00	48.80	59.50	55.20	25.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 3:30 AM	203.00	2.00	53.90	48.00	0.00	48.00	59.70	53.90	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 3:45 AM	208.00	2.00	52.70	45.10	0.00	45.10	57.30	52.70	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 4:00 AM	211.00	1.90	50.30	41.90	0.00	41.90	52.70	50.30	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 4:15 AM	220.00	3.00	49.80	42.40	0.00	42.40	52.10	49.80	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 4:30 AM	199.00	2.10	49.20	40.70	0.00	40.70	50.60	49.20	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 4:45 AM	206.00	2.40	44.80	40.30	0.00	40.30	48.30	44.80	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 5:00 AM	215.00	2.20	44.80	40.30	0.00	40.30	46.80	44.80	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 5:15 AM	200.00	2.60	36.90	33.50	0.00	33.50	42.10	36.90	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 5:30 AM	199.00	2.60	32.80	31.30	0.00	31.30	34.80	32.80	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 5:45 AM	206.00	2.10	31.40	31.90	0.50	31.90	31.10	31.40	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 6:00 AM	206.00	2.50	31.30	29.90	0.00	29.90	31.30	31.30	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 6:15 AM	207.00	1.60	31.60	29.50	0.00	29.50	32.10	31.60	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 6:30 AM	205.00	2.40	34.00	31.50	0.00	31.50	34.20	34.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Retrieved from www.indianaharbordredge.com
on 8/15/2014 3:19 PM

US Army Corps of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
July 2014
(note: weather station malfunction between 7/1 and 7/15)

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)							Naphthalene (µg/m³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
7/31/14 6:45 AM	198.00	2.30	38.40	34.00	0.00	34.00	36.50	38.40	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 7:00 AM	201.00	1.80	39.40	34.20	0.00	34.20	37.10	39.40	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 7:15 AM	232.00	2.80	42.80	36.90	0.00	36.90	42.70	42.80	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 7:30 AM	235.00	2.40	43.60	38.00	0.00	38.00	45.40	43.60	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 7:45 AM	218.00	3.00	47.90	40.60	0.00	40.60	50.80	47.90	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 8:00 AM	222.00	3.60	49.50	41.40	0.00	41.40	52.30	49.50	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 8:15 AM	222.00	3.10	44.40	38.00	0.00	38.00	46.10	44.40	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 8:30 AM	220.00	2.10	39.20	34.00	0.00	34.00	38.70	39.20	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 8:45 AM	222.00	3.10	33.20	32.90	0.00	32.90	32.20	33.20	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 9:00 AM	242.00	3.50	29.70	28.20	0.00	28.20	27.60	29.70	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 9:15 AM	232.00	3.30	25.30	26.80	1.50	26.80	24.10	25.30	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 9:30 AM	236.00	3.30	22.40	26.80	4.40	26.80	22.90	22.40	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 9:45 AM	232.00	4.50	19.80	25.00	5.20	25.00	22.90	19.80	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 10:00 AM	260.00	5.60	16.60	23.50	6.90	23.50	22.90	16.60	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 10:15 AM	231.00	5.50	13.60	17.60	4.00	17.60	22.90	13.60	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 10:30 AM	237.00	6.00	13.80	18.20	4.40	18.20	22.90	13.80	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 10:45 AM	241.00	4.50	13.70	19.70	6.00	19.70	22.90	13.70	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 11:00 AM	245.00	3.70	14.20	0.00	0.00	0.00	22.90	14.20	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 11:15 AM	247.00	5.10	13.50	20.00	6.50	20.00	11.90	13.50	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 11:30 AM	244.00	3.80	14.40	22.40	8.00	22.40	12.30	14.40	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 11:45 AM	254.00	3.80	14.70	22.20	7.50	22.20	14.30	14.70	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 12:00 PM	252.00	4.40	14.90	22.60	7.70	22.60	14.30	14.90	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 12:15 PM	241.00	6.70	15.40	23.90	8.50	23.90	14.50	15.40	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 12:30 PM	242.00	5.40	15.30	24.00	8.70	24.00	14.90	15.30	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 12:45 PM	241.00	6.40	15.20	22.40	7.20	22.40	14.60	15.20	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 1:00 PM	262.00	5.40	16.00	23.40	7.40	23.40	15.30	16.00	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 1:15 PM	258.00	4.80	15.10	22.40	7.30	22.40	14.90	15.10	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 1:30 PM	274.00	3.50	16.60	14.90	0.00	22.10	14.90	14.40	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 1:45 PM	251.00	4.40	14.20	22.20	8.00	22.20	14.90	14.20	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 2:00 PM	254.00	5.80	13.90	22.30	8.40	22.30	14.90	13.90	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 2:15 PM	242.00	6.00	14.20	24.70	10.50	24.70	14.90	14.20	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 2:30 PM	271.00	5.50	17.40	14.90	0.00	23.40	14.90	14.20	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 2:45 PM	258.00	4.60	14.20	24.40	10.20	24.40	15.50	14.20	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 3:00 PM	263.00	4.80	14.60	25.40	10.80	25.40	15.60	14.60	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 3:15 PM	271.00	4.20	18.70	15.60	0.00	26.10	15.60	14.50	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 3:30 PM	267.00	5.00	15.40	26.90	11.50	26.90	16.20	15.40	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 3:45 PM	259.00	3.70	15.10	27.50	12.40	27.50	17.10	15.10	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 4:00 PM	256.00	3.40	15.20	27.50	12.30	27.50	17.50	15.20	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 4:15 PM	253.00	3.40	15.50	26.70	11.20	26.70	18.10	15.50	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 4:30 PM	261.00	5.10	17.90	28.10	10.20	28.10	19.40	17.90	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 4:45 PM	245.00	4.30	16.50	27.70	11.20	27.70	18.50	16.50	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 5:00 PM	282.00	4.00	19.70	18.60	0.00	28.60	18.60	16.80	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 5:15 PM	282.00	4.80	19.00	18.60	0.00	27.10	18.60	16.80	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 5:30 PM	255.00	3.80	16.80	27.00	10.20	27.00	18.20	16.80	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 5:45 PM	274.00	3.90	19.10	17.90	0.00	26.40	17.90	16.00	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 6:00 PM	257.00	4.60	16.00	25.10	9.10	25.10	17.40	16.00	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 6:15 PM	248.00	4.20	16.50	26.10	9.60	26.10	17.70	16.50	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 6:30 PM	235.00	3.70	16.70	26.30	9.60	26.30	18.20	16.70	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 6:45 PM	240.00	2.40	16.30	27.80	11.50	27.80	18.50	16.30	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 7:00 PM	258.00	4.10	17.10	27.00	9.90	27.00	19.50	17.10	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 7:15 PM	253.00	3.50	17.10	28.40	11.30	28.40	20.90	17.10	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 7:30 PM	240.00	3.80	16.20	25.90	9.70	25.90	19.80	16.20	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 7:45 PM	253.00	2.00	16.50	25.90	9.40	25.90	20.60	16.50	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 8:00 PM	253.00	1.90	17.00	25.60	8.60	25.60	20.60	17.00	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 8:15 PM	232.00	2.90	16.90	25.10	8.20	25.10	20.60	16.90	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 8:30 PM	224.00	2.10	17.20	25.20	8.00	25.20	20.40	17.20	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 8:45 PM	206.00	2.10	17.90	25.40	7.50	25.40	21.20	17.90	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 9:00 PM	209.00	1.70	18.40	25.10	6.70	25.10	21.80	18.40	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 9:15 PM	205.00	1.80	19.20	25.30	6.10	25.30	22.80	19.20	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 9:30 PM	218.00	1.60	20.30	26.50	6.20	26.50	23.70	20.30	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 9:45 PM	216.00	2.20	23.10	25.40	2.30	25.40	25.70	23.10	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 10:00 PM	232.00	2.60	23.70	26.80	3.10	26.80	25.10	23.70	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 10:15 PM	235.00	1.70	24.00	25.80	1.80	25.80	26.60	24.00	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 10:30 PM	203.00	1.50	24.80	25.90	1.10	25.90	27.60	24.80	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 10:45 PM	227.00	1.50	26.30	27.40	1.10	27.40	28.80	26.30	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 11:00 PM	207.00	1.90	27.60	28.80	1.20	28.80	29.40	27.60	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 11:15 PM	223.00	0.90	27.10	31.20	4.10	31.20	31.00	27.10	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 11:30 PM	206.00	1.30	30.00	32.10	2.10	32.10	32.40	30.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/14 11:45 PM	201.00	1.40	30.10	32.50	2.40	32.50	32.70	30.10	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Retrieved from www.indianaharbordredge.com
on 8/15/2014 3:19 PM

IHC CDF Dredge Project : Air Monitoring Alarm Response Log

Air Monitoring Station: ☐ M1 ☒ M2 ☒ M3 ☒ M4 ☐ Dock

Air Monitoring Instrument:

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

Date & Time of alarm: 7/27/2014 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
X	Loss of Radio Communication
	Out of Calibration
	UV Alignment
	Blockage in Air Tube
	Air Quality
X	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:

- Strong winds and fog caused high particle reads at M2 and M3. M1 computer stopped work because of a problem that occurred with the page file configuration. On 7/28/2014, unneeded files were removed and the system tools, disk cleanup and disk defragmenter were used to maximums disk space on the C drive.

IHC CDF Dredge Project : Air Monitoring Alarm Response Log

Air Monitoring Station: ☒ M1 ☐ M2 ☐ M3 ☐ M4 ☐ Dock

Air Monitoring Instrument:

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

Date & Time of alarm: 7/21/2014 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
X	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:

- Strong winds blew dust from the upper road causing the Thermo Unit to alarm. Units M1 was checked and no problems were found. Unit was checked again on 7/24/2014.

IHC CDF Dredge Project : Air Monitoring Alarm Response Log

Air Monitoring Station: ☒ M1 ☒ M2 ☒ M3 ☐ M4 ☐ Dock

Air Monitoring Instrument:

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

Date & Time of alarm: 7/20/2014 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:

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

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

Description of Action Taken:

- Storms caused the power to blink stopping the radios from communicating with the base station radio. The Cerex unit's power was cycled to completely restart the computer and radio. All of the units were checked on 7/21/2014 at 8:00am.