



**US Army Corps
of Engineers**

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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
2/1/14 12:00 AM	172.00	1.90	26.20	19.20	0.00	9.40	26.20	29.70	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 12:15 AM	62.00	0.50	9.40	27.60	18.20	9.40	27.20	27.60	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 12:30 AM	153.00	2.30	29.90	23.90	0.00	9.40	29.90	29.80	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 12:45 AM	111.00	0.80	29.70	25.20	0.00	9.40	29.70	31.40	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 1:00 AM	128.00	0.40	30.40	21.10	0.00	9.40	30.40	34.50	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 1:15 AM	91.00	1.50	24.00	16.10	0.00	9.40	24.00	21.90	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 1:30 AM	80.00	3.30	9.40	21.90	12.50	9.40	24.90	21.90	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 1:45 AM	91.00	3.10	23.80	20.40	0.00	0.00	23.80	20.10	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 2:00 AM	86.00	2.70	9.40	22.10	12.70	9.40	21.10	22.10	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 2:15 AM	54.00	3.20	9.40	19.80	10.40	9.40	23.00	19.80	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 2:30 AM	80.00	3.40	9.40	25.40	16.00	9.40	23.30	25.40	29.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 2:45 AM	88.00	3.40	9.40	34.90	25.50	9.40	28.00	34.90	28.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 3:00 AM	65.00	3.50	9.40	29.10	19.70	9.40	26.90	29.10	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 3:15 AM	91.00	3.20	28.10	31.40	3.30	9.40	28.10	35.60	31.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 3:30 AM	80.00	4.90	9.40	30.20	20.80	9.40	29.60	30.20	42.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 3:45 AM	70.00	3.30	9.40	35.60	26.20	9.40	30.80	35.60	31.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 4:00 AM	95.00	2.50	34.50	31.60	0.00	9.40	34.50	35.80	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 4:15 AM	127.00	4.70	36.80	23.40	0.00	9.40	36.80	34.90	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 4:30 AM	107.00	3.50	39.30	28.60	0.00	9.40	39.30	36.80	28.60	1.70	0.00	0.00	0.00	1.70	0.00	0.00
2/1/14 4:45 AM	79.00	3.90	9.40	45.20	35.80	9.40	44.80	45.20	26.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 5:00 AM	77.00	3.30	9.40	35.00	25.60	9.40	40.30	35.00	29.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 5:15 AM	99.00	3.20	34.70	34.10	0.00	9.40	34.70	33.10	34.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 5:30 AM	67.00	3.90	9.40	35.20	25.80	9.40	35.90	33.20	32.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 5:45 AM	90.00	4.30	36.90	36.50	0.00	9.40	36.90	37.00	36.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 6:00 AM	72.00	3.80	9.40	37.90	28.50	9.40	37.20	37.90	32.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 6:15 AM	75.00	3.80	9.40	44.90	35.50	9.40	41.70	44.90	44.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 6:30 AM	81.00	1.70	9.40	48.60	39.20	9.40	45.30	48.60	41.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 6:45 AM	74.00	1.70	9.40	50.20	40.80	9.40	48.00	50.20	39.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 7:00 AM	70.00	2.80	9.40	49.20	39.80	9.40	47.50	49.20	42.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 7:15 AM	71.00	3.90	9.40	52.30	42.90	9.40	50.90	52.30	46.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 7:30 AM	78.00	3.70	9.40	50.30	40.90	9.40	48.30	50.30	50.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 7:45 AM	75.00	3.10	9.40	52.80	43.40	9.40	54.30	52.80	49.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 8:00 AM	63.00	2.00	9.40	55.60	46.20	9.40	54.10	55.60	50.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 8:15 AM	64.00	1.70	9.40	56.90	47.50	9.40	56.20	56.90	53.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 8:30 AM	62.00	1.90	9.40	58.90	49.50	9.40	58.40	58.90	57.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 8:45 AM	76.00	2.80	9.40	69.40	60.00	9.40	62.50	69.40	55.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 9:00 AM	75.00	2.50	9.40	67.30	57.90	9.40	63.30	67.30	52.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 9:15 AM	60.00	2.70	9.40	58.80	49.40	9.40	54.60	58.80	47.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 9:30 AM	95.00	3.10	55.30	47.40	0.00	9.40	55.30	55.20	47.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 9:45 AM	70.00	3.40	9.40	55.70	46.30	9.40	53.00	55.70	48.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 10:00 AM	93.00	3.20	60.00	49.70	0.00	9.40	60.00	66.10	49.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 10:15 AM	91.00	5.40	56.10	54.80	0.00	9.40	56.10	58.40	54.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 10:30 AM	82.00	3.70	9.40	51.20	41.80	9.40	53.10	51.20	47.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 10:45 AM	83.00	4.80	9.40	49.30	39.90	9.40	50.50	49.30	45.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 11:00 AM	83.00	4.80	9.40	47.00	37.60	9.40	46.00	47.00	44.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 11:15 AM	36.00	3.50	9.40	48.60	39.20	9.40	48.20	48.60	43.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 11:30 AM	54.00	3.60	9.40	66.60	57.20	9.40	68.90	66.60	49.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 11:45 AM	66.00	4.30	9.40	57.10	47.70	9.40	56.80	57.10	48.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 12:00 PM	86.00	3.20	9.40	85.10	75.70	9.40	90.50	85.10	67.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 12:15 PM	75.00	3.30	9.40	84.20	74.80	9.40	61.30	84.20	84.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 12:30 PM	40.00	2.70	9.40	80.90	71.50	9.40	72.30	80.90	61.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 12:45 PM	57.00	4.80	9.40	48.00	38.60	9.40	44.40	48.00	43.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 1:00 PM	49.00	3.40	9.40	44.50	35.10	9.40	41.30	44.50	39.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 1:15 PM	53.00	5.40	9.40	44.50	35.10	9.40	41.50	44.50	39.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 1:30 PM	47.00	4.80	9.40	41.50	32.10	9.40	41.10	41.50	37.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 1:45 PM	13.00	4.80	9.40	38.60	29.20	9.40	33.20	38.60	35.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 2:00 PM	359.00	6.30	33.60	36.10	2.50	9.40	36.10	37.30	33.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 2:15 PM	6.00	7.40	9.40	33.90	24.50	9.40	33.30	33.90	31.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 2:30 PM	359.00	5.00	27.70	29.60	1.90	9.40	29.60	30.80	27.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 2:45 PM	4.00	5.90	9.40	25.00	15.60	9.40	24.20	25.00	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 3:00 PM	0.00	6.90	9.40	21.70	12.30	9.40	22.90	21.70	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 3:15 PM	6.00	5.60	9.40	21.00	11.60	9.40	22.10	21.00	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 3:30 PM	1.00	7.40	9.40	20.70	11.30	9.40	21.90	20.70	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 3:45 PM	5.00	7.50	9.40	17.50	8.10	9.40	20.60	17.50	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 4:00 PM	4.00	6.80	9.40	18.70	9.30	9.40	22.90	18.70	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 4:15 PM	5.00	6.60	9.40	18.50	9.10	9.40	25.00	18.50	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 4:30 PM	0.00	6.50	9.40	19.00	9.60	9.40	19.80	19.00	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 4:45 PM	1.00	5.60	9.40	20.30	10.90	9.40	21.00	20.30	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 5:00 PM	359.00	4.90	17.80	20.30	2.50	9.40	20.30	19.40	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/1/14 5:15 PM	3.00	7.00	9.40	18.70	9.30	9.40	19.40	18.70	17.40							



Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
2/2/14 1:15 AM	326.00	2.30	21.10	21.90	0.80	9.40	21.90	21.50	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 1:30 AM	306.00	2.80	22.00	21.90	0.00	9.40	21.90	22.10	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 1:45 AM	328.00	4.30	21.60	21.40	0.00	9.40	21.40	20.80	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 2:00 AM	332.00	3.80	19.60	18.30	0.00	9.40	18.30	17.10	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 2:15 AM	338.00	3.50	19.00	18.20	0.00	9.40	18.20	16.20	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 2:30 AM	335.00	3.50	18.30	17.50	0.00	9.40	17.50	16.20	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 2:45 AM	330.00	3.40	18.40	17.50	0.00	9.40	17.50	16.10	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 3:00 AM	324.00	2.30	17.00	15.80	0.00	9.40	15.80	14.00	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 3:15 AM	335.00	3.30	14.80	14.00	0.00	9.40	14.00	12.40	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 3:30 AM	324.00	3.50	14.40	13.60	0.00	9.40	13.60	12.10	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 3:45 AM	336.00	3.70	14.50	13.10	0.00	9.40	13.10	11.20	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 4:00 AM	327.00	4.10	15.10	13.90	0.00	9.40	13.90	12.00	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 4:15 AM	322.00	3.00	16.30	14.70	0.00	9.40	14.70	12.70	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 4:30 AM	333.00	2.70	16.50	14.50	0.00	9.40	14.50	12.70	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 4:45 AM	343.00	2.90	16.90	15.80	0.00	9.40	15.80	14.40	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 5:00 AM	321.00	3.80	17.00	16.10	0.00	9.40	16.10	15.00	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 5:15 AM	337.00	3.30	17.40	16.40	0.00	9.40	16.40	15.20	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 5:30 AM	337.00	3.20	18.00	16.50	0.00	9.40	16.50	15.90	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 5:45 AM	331.00	3.40	18.80	17.40	0.00	9.40	17.40	16.90	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 6:00 AM	327.00	3.20	19.40	17.90	0.00	9.40	17.90	17.30	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 6:15 AM	331.00	2.80	19.60	18.70	0.00	9.40	18.70	18.30	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 6:30 AM	335.00	3.30	20.20	18.80	0.00	9.40	18.80	18.80	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 6:45 AM	330.00	2.80	20.60	19.10	0.00	9.40	19.10	19.80	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 7:00 AM	330.00	3.50	21.10	20.20	0.00	9.40	20.20	22.00	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 7:15 AM	323.00	3.40	21.30	22.10	0.80	9.40	22.10	23.00	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 7:30 AM	340.00	4.10	20.70	19.40	0.00	9.40	19.40	19.90	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 7:45 AM	325.00	3.40	21.20	19.80	0.00	9.40	19.80	19.40	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 8:00 AM	330.00	3.40	21.20	19.90	0.00	9.40	19.90	19.40	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 8:15 AM	328.00	3.10	19.30	18.80	0.00	9.40	18.80	18.90	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 8:30 AM	329.00	2.90	19.60	18.60	0.00	9.40	18.60	18.20	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 8:45 AM	321.00	2.50	19.90	19.80	0.00	9.40	19.80	19.10	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 9:00 AM	317.00	2.70	19.50	19.50	0.00	9.40	19.50	18.70	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 9:15 AM	339.00	2.60	19.10	19.00	0.00	9.40	19.00	18.40	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 9:30 AM	334.00	3.90	19.10	19.10	0.00	9.40	19.10	18.10	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 9:45 AM	338.00	5.40	19.30	19.60	0.30	9.40	19.60	18.40	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 10:00 AM	326.00	4.50	18.40	19.50	1.10	9.40	19.50	18.40	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 10:15 AM	8.00	7.10	9.40	16.40	7.00	9.40	18.10	16.40	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 10:30 AM	7.00	8.10	9.40	16.40	7.00	9.40	15.20	16.40	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 10:45 AM	5.00	5.90	9.40	11.90	2.50	9.40	14.30	11.90	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 11:00 AM	359.00	5.30	14.50	14.50	0.00	9.40	14.50	12.60	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 11:15 AM	1.00	3.30	0.00	13.00	0.00	0.00	14.60	13.00	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 11:30 AM	326.00	0.90	15.70	15.30	0.00	9.40	15.30	14.80	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 11:45 AM	334.00	2.70	15.90	16.00	0.10	9.40	16.00	14.20	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 12:00 PM	292.00	1.80	17.50	16.70	0.00	9.40	16.70	16.00	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 12:15 PM	338.00	3.00	16.80	16.30	0.00	9.40	16.30	16.60	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 12:30 PM	332.00	1.80	17.80	17.40	0.00	9.40	17.40	16.50	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 12:45 PM	298.00	1.80	17.90	16.60	0.00	9.40	16.60	16.70	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 1:00 PM	312.00	2.00	17.80	17.20	0.00	9.40	17.20	15.80	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 1:15 PM	298.00	1.70	17.00	16.70	0.00	9.40	16.70	15.60	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 1:30 PM	325.00	3.00	16.40	15.90	0.00	9.40	15.90	15.20	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 1:45 PM	351.00	2.60	15.40	15.30	0.00	9.40	15.30	14.40	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 2:00 PM	7.00	4.20	9.40	15.70	6.30	9.40	17.00	15.70	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 2:15 PM	14.00	4.70	9.40	16.60	7.20	9.40	17.30	16.60	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 2:30 PM	9.00	3.50	9.40	17.30	7.90	9.40	17.10	17.30	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 2:45 PM	14.00	3.30	9.40	18.10	8.70	9.40	18.20	18.10	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 3:00 PM	18.00	1.10	9.40	18.40	9.00	9.40	18.60	18.40	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 3:15 PM	0.00	2.50	9.40	19.50	10.10	9.40	19.30	19.50	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 3:30 PM	12.00	2.50	9.40	18.40	9.00	9.40	19.40	18.40	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 3:45 PM	6.00	3.40	9.40	18.90	9.50	9.40	19.20	18.90	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 4:00 PM	348.00	2.20	17.90	18.70	0.80	9.40	18.70	17.40	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 4:15 PM	3.00	3.20	9.40	16.40	7.00	9.40	18.10	16.40	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 4:30 PM	2.00	4.30	9.40	16.30	6.90	9.40	19.10	16.30	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 4:45 PM	356.00	2.40	18.00	18.50	0.50	9.40	18.50	16.40	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 5:00 PM	0.00	2.10	9.40	17.10	7.70	9.40	18.90	17.10	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 5:15 PM	331.00	2.40	19.00	19.80	0.80	9.40	19.80	17.00	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 5:30 PM	344.00	2.40	19.70	20.10	0.40	9.40	20.10	18.30	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 5:45 PM	39.00	2.30	9.40	18.90	9.50	9.40	20.50	18.90	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 6:00 PM	5.00	2.30	9.40	18.80	9.40	9.40	20.90	18.80	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/2/14 6:15 PM	27.00	2.90	9.40	18.40	9.00	9.40	21.30	18.40	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/																		



US Army Corps of Engineers

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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
2/3/14 2:30 AM	311.00	2.30	38.70	42.40	3.70	9.40	42.40	50.10	38.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 2:45 AM	309.00	3.20	39.20	47.90	8.70	9.40	47.90	53.80	39.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 3:00 AM	252.00	1.10	56.00	9.40	0.00	9.40	50.80	56.00	41.70	0.00	1.20	1.20	0.00	1.20	0.00	0.00		
2/3/14 3:15 AM	251.00	1.20	59.90	9.40	0.00	9.40	51.10	59.90	41.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 3:30 AM	247.00	1.20	55.50	9.40	0.00	9.40	51.80	55.50	41.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 3:45 AM	265.00	1.70	53.40	9.40	0.00	9.40	51.70	53.40	39.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 4:00 AM	300.00	1.70	35.80	51.20	15.40	9.40	51.20	55.70	35.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 4:15 AM	298.00	2.40	36.30	48.20	11.90	9.40	48.20	52.80	36.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 4:30 AM	309.00	3.20	35.90	49.10	13.20	9.40	49.10	50.80	35.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 4:45 AM	312.00	4.10	37.80	49.60	11.80	9.40	49.60	50.80	37.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 5:00 AM	284.00	1.20	37.50	46.90	9.40	9.40	46.90	49.70	37.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 5:15 AM	308.00	2.70	39.20	47.90	8.70	9.40	47.90	48.90	39.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 5:30 AM	304.00	2.40	37.00	45.70	8.70	9.40	45.70	47.80	37.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 5:45 AM	305.00	3.00	37.40	46.50	9.10	9.40	46.50	46.60	37.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 6:00 AM	308.00	3.80	42.40	49.90	7.50	9.40	49.90	51.80	42.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 6:15 AM	306.00	4.10	46.70	48.90	2.20	9.40	48.90	49.40	46.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 6:30 AM	309.00	4.30	48.00	46.30	0.00	9.40	46.30	47.10	48.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 6:45 AM	313.00	2.60	44.80	45.40	6.60	9.40	45.40	45.40	44.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 7:00 AM	309.00	3.90	42.20	48.70	6.50	9.40	48.70	51.80	42.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 7:15 AM	327.00	2.70	42.40	53.60	11.20	9.40	53.60	57.30	42.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 7:30 AM	314.00	2.00	40.40	54.20	13.80	9.40	54.20	53.90	40.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 7:45 AM	322.00	2.70	40.40	52.20	11.80	9.40	52.20	47.20	40.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 8:00 AM	310.00	2.00	45.40	44.60	0.00	9.40	44.60	46.10	45.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 8:15 AM	314.00	2.00	43.10	47.80	4.70	9.40	47.80	47.20	43.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 8:30 AM	312.00	2.00	44.00	48.40	4.40	9.40	48.40	48.20	44.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 8:45 AM	315.00	1.80	44.30	49.80	5.50	9.40	49.80	48.90	44.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 9:00 AM	291.00	1.20	45.50	52.00	6.50	9.40	52.00	51.60	45.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 9:15 AM	222.00	1.10	52.50	9.40	0.00	9.40	52.40	52.50	45.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 9:30 AM	282.00	1.50	44.80	52.30	7.50	9.40	52.30	51.50	44.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 9:45 AM	277.00	1.10	41.60	52.00	10.40	9.40	52.00	49.00	41.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 10:00 AM	268.00	1.40	53.70	9.40	0.00	9.40	52.90	53.70	39.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 10:15 AM	259.00	1.30	43.50	9.40	0.00	9.40	45.80	43.50	37.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 10:30 AM	324.00	1.40	39.80	49.20	9.40	9.40	49.20	42.20	39.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 10:45 AM	290.00	0.90	38.40	47.70	9.30	9.40	47.70	42.50	38.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 11:00 AM	323.00	2.10	37.70	43.60	5.90	9.40	43.60	34.30	37.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 11:15 AM	325.00	1.60	41.00	43.20	2.20	9.40	43.20	35.90	41.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 11:30 AM	335.00	0.90	47.60	46.40	0.00	9.40	46.40	38.60	47.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 11:45 AM	342.00	0.90	45.60	45.20	0.00	9.40	45.20	28.40	45.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 12:00 PM	346.00	0.80	34.60	36.50	1.90	9.40	36.50	27.80	34.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 12:15 PM	317.00	0.90	46.50	30.90	0.00	9.40	30.90	34.70	46.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 12:30 PM	69.00	0.50	9.40	19.00	9.60	9.40	18.70	19.00	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 12:45 PM	266.00	1.10	18.40	9.40	0.00	9.40	25.00	18.40	29.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 1:00 PM	228.00	1.80	20.40	9.40	0.00	9.40	22.30	20.40	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 1:15 PM	297.00	2.00	27.90	25.50	0.00	9.40	25.50	23.50	27.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 1:30 PM	263.00	3.60	16.20	9.40	0.00	9.40	23.00	16.20	29.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 1:45 PM	275.00	2.60	21.10	18.50	0.00	9.40	18.50	14.60	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 2:00 PM	267.00	2.90	20.20	9.40	0.00	9.40	23.30	20.20	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 2:15 PM	259.00	4.30	18.40	9.40	0.00	9.40	21.50	18.40	26.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 2:30 PM	259.00	5.20	17.60	9.40	0.00	9.40	20.80	17.60	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 2:45 PM	260.00	3.10	7.90	9.40	1.50	9.40	12.40	7.90	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 3:00 PM	256.00	3.30	5.30	9.40	4.10	9.40	10.20	5.30	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 3:15 PM	232.00	2.90	7.00	9.40	2.40	9.40	11.00	7.00	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 3:30 PM	233.00	5.60	6.10	9.40	3.30	9.40	10.70	6.10	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 3:45 PM	258.00	3.70	6.00	9.40	3.40	9.40	10.40	6.00	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 4:00 PM	246.00	3.90	6.10	9.40	3.30	9.40	10.90	6.10	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 4:15 PM	221.00	2.00	6.90	9.40	2.50	9.40	11.30	6.90	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 4:30 PM	208.00	3.60	6.20	9.40	3.20	9.40	10.80	6.20	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 4:45 PM	230.00	2.40	5.60	9.40	3.80	9.40	10.90	5.60	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 5:00 PM	249.00	4.00	5.10	9.40	4.30	9.40	10.60	5.10	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 5:15 PM	235.00	4.40	5.20	9.40	4.20	9.40	9.70	5.20	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 5:30 PM	233.00	3.70	4.40	9.40	5.00	9.40	9.20	4.40	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 5:45 PM	228.00	2.80	5.60	9.40	3.80	9.40	10.50	5.60	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 6:00 PM	252.00	2.70	4.50	9.40	4.90	9.40	10.50	4.50	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 6:15 PM	252.00	3.30	4.40	9.40	5.00	9.40	9.50	4.40	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 6:30 PM	237.00	2.40	4.40	9.40	5.00	9.40	9.50	4.40	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 6:45 PM	247.00	1.80	3.80	9.40	5.60	9.40	10.30	3.80	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 7:00 PM	253.00	2.10	5.40	9.40	4.00	9.40	12.00	5.40	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 7:15 PM	221.00	1.90	8.40	9.40	1.00	9.40	13.00	8.40	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 7:30 PM	233.00	0.90	9.10	9.40	0.30	9.40	14.90	9.10	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/3/14 7:45 PM	216.00	1.20	10.10	9.40	0.00	9.40	14.40	10.10	16.00	0.00	0							



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of Engineers

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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
			2/4/14 3:45 AM	241.00	1.60	59.70	9.40	0.00	9.40	55.90	59.70	47.40	0.00	0.00	0.00	0.00	0.00	0.00
2/4/14 4:00 AM	215.00	0.90	59.20	9.40	0.00	9.40	52.80	59.20	47.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 4:15 AM	222.00	1.20	59.60	9.40	0.00	9.40	54.90	59.60	46.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 4:30 AM	228.00	1.10	56.50	9.40	0.00	9.40	54.20	56.50	46.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 4:45 AM	244.00	1.40	56.10	9.40	0.00	9.40	51.80	56.10	45.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 5:00 AM	277.00	1.40	47.40	52.80	5.40	9.40	52.80	55.80	47.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 5:15 AM	277.00	1.10	48.00	53.60	5.60	9.40	53.60	56.40	48.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 5:30 AM	325.00	1.10	51.00	54.80	3.80	9.40	54.80	57.90	51.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 5:45 AM	286.00	1.20	50.00	56.40	6.40	9.40	56.40	60.70	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 6:00 AM	90.00	0.10	66.10	49.20	0.00	9.40	66.10	59.00	49.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 6:15 AM	354.00	0.70	49.40	50.20	0.80	9.40	50.20	61.90	49.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 6:30 AM	349.00	1.30	49.20	46.70	0.00	9.40	46.70	53.20	49.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 6:45 AM	287.00	1.00	49.20	48.50	0.00	9.40	48.50	53.20	49.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 7:00 AM	212.00	1.30	45.00	9.40	0.00	9.40	50.60	45.00	46.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 7:15 AM	221.00	1.20	49.00	9.40	0.00	9.40	45.90	49.00	36.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 7:30 AM	215.00	1.30	49.90	9.40	0.00	9.40	46.30	49.90	45.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 7:45 AM	235.00	1.30	49.30	9.40	0.00	9.40	48.10	49.30	47.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 8:00 AM	198.00	1.70	52.90	9.40	0.00	9.40	49.90	52.90	46.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 8:15 AM	251.00	1.60	57.50	9.40	0.00	9.40	53.00	57.50	49.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 8:30 AM	250.00	1.60	60.90	9.40	0.00	9.40	60.60	60.90	49.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 8:45 AM	235.00	1.30	61.30	9.40	0.00	9.40	58.80	61.30	51.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 9:00 AM	111.00	0.20	59.30	53.70	0.00	9.40	59.30	58.80	53.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 9:15 AM	12.00	0.70	9.40	61.10	51.70	9.40	61.00	61.10	53.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 9:30 AM	252.00	1.00	59.40	9.40	0.00	9.40	61.60	59.40	61.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 9:45 AM	276.00	1.40	86.30	62.20	0.00	9.40	62.20	65.90	86.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 10:00 AM	233.00	1.10	68.00	9.40	0.00	9.40	66.40	68.00	76.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 10:15 AM	145.00	1.20	60.10	61.70	1.60	9.40	60.10	63.00	61.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 10:30 AM	141.00	1.70	58.80	60.80	2.00	9.40	58.80	63.50	60.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 10:45 AM	77.00	2.60	9.40	63.90	54.50	9.40	69.00	63.90	63.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 11:00 AM	80.00	3.00	9.40	66.10	56.70	9.40	49.60	66.10	37.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 11:15 AM	98.00	3.30	42.30	38.10	0.00	9.40	42.30	28.60	38.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 11:30 AM	83.00	2.80	9.40	28.80	19.40	9.40	35.80	28.80	27.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 11:45 AM	77.00	2.70	9.40	25.40	16.00	9.40	31.50	25.40	27.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 12:00 PM	133.00	2.40	36.10	25.20	0.00	9.40	36.10	27.30	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 12:15 PM	73.00	3.00	9.40	24.60	15.20	9.40	32.40	24.60	29.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 12:30 PM	39.00	3.40	9.40	34.40	25.00	9.40	36.60	34.40	37.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 12:45 PM	64.00	4.20	9.40	32.80	23.40	9.40	34.50	32.80	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 1:00 PM	66.00	2.10	16.90	33.50	16.60	16.90	38.10	33.50	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 1:15 PM	55.00	2.20	18.10	19.70	1.60	18.10	32.20	19.70	26.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 1:30 PM	67.00	3.80	19.80	36.60	16.80	19.80	27.70	36.60	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 1:45 PM	51.00	2.20	20.90	25.30	4.40	20.90	24.90	25.30	31.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 2:00 PM	70.00	3.10	24.00	20.90	0.00	24.00	104.20	20.90	33.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 2:15 PM	65.00	4.90	23.90	15.20	0.00	23.90	24.00	15.20	40.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 2:30 PM	60.00	3.70	24.20	45.60	21.40	24.20	47.10	45.60	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 2:45 PM	50.00	3.10	15.80	26.80	11.00	15.80	46.70	26.80	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 3:00 PM	69.00	4.10	17.30	19.80	2.50	17.30	41.20	19.80	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 3:15 PM	73.00	3.90	19.70	30.10	10.40	19.70	28.30	30.10	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 3:30 PM	66.00	3.20	19.10	22.00	2.90	19.10	29.30	22.00	28.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 3:45 PM	70.00	4.30	24.70	21.40	0.00	24.70	29.30	21.40	29.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 4:00 PM	59.00	3.30	24.00	23.90	0.00	24.00	32.20	23.90	32.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 4:15 PM	66.00	3.20	26.40	28.20	1.80	26.40	31.70	28.20	31.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 4:30 PM	87.00	3.90	19.40	23.20	3.80	19.40	31.70	23.20	31.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 4:45 PM	57.00	3.70	21.50	24.40	2.90	21.50	32.10	24.40	31.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 5:00 PM	115.00	4.60	34.40	37.40	3.00	24.20	34.40	26.30	37.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 5:15 PM	79.00	5.00	24.50	27.60	3.10	24.50	35.40	27.60	33.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 5:30 PM	67.00	6.20	18.60	26.70	8.10	18.60	38.50	26.70	30.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 5:45 PM	80.00	4.80	21.80	25.70	3.90	21.80	37.00	25.70	29.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 6:00 PM	73.00	4.30	24.50	26.60	2.10	24.50	32.10	26.60	25.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 6:15 PM	77.00	7.30	28.60	33.40	4.80	28.60	46.60	33.40	29.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 6:30 PM	75.00	5.70	41.50	32.50	0.00	41.50	41.90	32.50	28.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 6:45 PM	81.00	5.50	34.50	37.90	3.40	34.50	37.60	37.90	25.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 7:00 PM	95.00	6.20	43.90	27.30	0.00	27.30	43.90	33.30	27.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 7:15 PM	88.00	6.10	25.80	44.00	18.20	25.80	61.70	44.00	30.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 7:30 PM	86.00	5.40	19.00	25.00	6.00	19.00	34.30	25.00	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 7:45 PM	119.00	6.40	64.70	22.60	0.00	17.90	64.70	45.90	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/4/14 8:00 PM	80.00	5.60	17.10	22.60	17.60	17.10	39.60	34.70										



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (ug/m ³)								Naphthalene (ug/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
2/5/14 5:00 AM	52.00	10.40	19.80	45.20	25.40	19.80	41.00	45.20	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 5:15 AM	39.00	10.70	18.70	32.20	13.50	18.70	39.90	32.20	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 5:30 AM	41.00	11.70	21.00	37.30	16.30	21.00	34.00	37.30	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 5:45 AM	37.00	10.80	19.60	31.50	11.90	19.60	35.30	31.50	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 6:00 AM	45.00	12.80	19.70	35.60	15.90	19.70	32.80	35.60	25.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 6:15 AM	51.00	11.30	18.50	33.90	15.40	18.50	36.30	33.90	26.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 6:30 AM	44.00	11.70	0.00	36.80	0.00	0.00	33.20	36.80	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 6:45 AM	41.00	11.90	17.70	43.00	25.30	17.70	33.70	43.00	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 7:00 AM	37.00	9.30	18.50	66.90	48.40	18.50	41.30	66.90	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 7:15 AM	52.00	8.00	19.20	74.60	55.40	19.20	39.60	74.60	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 7:30 AM	43.00	9.60	18.60	84.20	65.60	18.60	39.20	84.20	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 7:45 AM	56.00	10.90	18.10	82.50	64.40	18.10	35.10	82.50	26.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 8:00 AM	39.00	9.10	17.60	52.30	34.70	17.60	32.00	52.30	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 8:15 AM	54.00	7.80	16.90	53.00	36.10	16.90	30.10	53.00	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 8:30 AM	57.00	9.80	14.50	44.20	29.70	14.50	30.70	44.20	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 8:45 AM	46.00	11.50	13.40	69.20	55.80	13.40	25.90	69.20	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 9:00 AM	29.00	10.50	11.60	32.30	20.70	11.60	21.00	32.30	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 9:15 AM	23.00	10.10	11.40	55.30	43.90	11.40	19.00	55.30	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 9:30 AM	36.00	10.50	12.00	31.00	19.00	12.00	17.90	31.00	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 9:45 AM	34.00	10.50	12.60	39.80	27.20	12.60	18.80	39.80	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 10:00 AM	18.00	13.30	23.40	25.40	2.00	23.40	37.60	25.40	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 10:15 AM	30.00	12.90	23.80	25.70	1.90	23.80	32.70	25.70	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 10:30 AM	21.00	11.20	26.40	19.30	0.00	26.40	34.40	19.30	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 10:45 AM	16.00	12.40	17.70	15.30	0.00	17.70	24.60	15.30	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 11:00 AM	18.00	13.00	21.20	9.80	0.00	21.20	25.90	9.80	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 11:15 AM	18.00	12.80	15.80	13.80	0.00	15.80	21.20	13.80	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 11:30 AM	8.00	15.60	13.70	16.20	2.50	13.70	27.30	16.20	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 11:45 AM	22.00	15.80	12.40	11.20	0.00	12.40	24.50	11.20	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 12:00 PM	10.00	9.50	10.00	13.20	3.20	10.00	17.30	13.20	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 12:15 PM	16.00	11.70	10.40	13.90	3.50	10.40	17.30	13.90	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 12:30 PM	19.00	11.30	11.00	5.70	0.00	11.00	21.60	5.70	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 12:45 PM	13.00	9.60	10.80	4.80	0.00	10.80	20.10	4.80	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 1:00 PM	11.00	12.80	5.70	4.90	0.00	5.70	15.60	4.90	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 1:15 PM	16.00	11.00	6.00	10.50	4.50	6.00	11.00	10.50	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 1:30 PM	12.00	10.90	4.90	4.30	0.00	4.90	10.40	4.30	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 1:45 PM	18.00	10.50	0.00	4.10	0.00	0.00	11.10	4.10	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 2:00 PM	20.00	10.50	4.30	5.40	1.10	4.30	9.40	5.40	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 2:15 PM	18.00	11.80	4.30	28.40	24.10	4.30	9.10	28.40	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 2:30 PM	20.00	8.70	7.00	3.90	0.00	7.00	11.50	3.90	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 2:45 PM	20.00	11.80	7.20	11.80	4.60	7.20	14.80	11.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 3:00 PM	3.00	9.00	4.70	25.40	20.70	4.70	10.20	25.40	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 3:15 PM	3.00	11.60	4.60	7.70	3.10	4.60	16.80	7.70	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 3:30 PM	5.00	9.70	4.60	6.70	2.10	4.60	11.20	6.70	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 3:45 PM	359.00	8.40	10.60	16.70	6.10	4.70	16.70	10.60	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 4:00 PM	356.00	8.70	8.90	20.80	11.90	5.20	20.80	11.70	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 4:15 PM	354.00	8.70	10.30	17.40	7.10	5.80	17.40	10.10	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 4:30 PM	2.00	5.20	6.10	9.90	3.80	6.10	17.60	9.90	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 4:45 PM	3.00	5.30	6.50	10.10	3.60	6.50	15.20	10.10	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 5:00 PM	345.00	5.90	10.50	19.00	8.50	6.70	19.00	9.30	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 5:15 PM	1.00	5.90	0.00	9.30	0.00	0.00	15.20	9.30	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 5:30 PM	345.00	4.90	12.20	16.00	3.80	7.70	16.00	12.00	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 5:45 PM	0.00	5.20	7.90	17.50	9.60	7.90	17.30	17.50	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 6:00 PM	3.00	5.20	7.40	11.00	3.60	7.40	16.10	11.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 6:15 PM	358.00	6.40	10.90	14.80	3.90	8.20	14.80	11.20	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 6:30 PM	339.00	3.50	10.80	14.50	3.70	0.00	14.50	11.20	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 6:45 PM	355.00	4.10	11.20	15.50	4.30	8.30	15.50	11.70	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 7:00 PM	336.00	3.30	11.70	14.90	3.20	8.80	14.90	11.60	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 7:15 PM	333.00	5.50	10.40	14.70	4.30	8.20	14.70	11.80	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 7:30 PM	333.00	3.60	10.70	14.60	3.90	0.00	14.60	10.70	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 7:45 PM	327.00	4.40	10.80	14.40	3.60	8.50	14.40	9.40	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 8:00 PM	336.00	4.10	10.80	14.70	3.90	8.30	14.70	9.70	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 8:15 PM	324.00	4.10	11.00	14.40	3.40	8.70	14.40	12.30	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 8:30 PM	330.00	3.70	11.60	15.20	3.60	9.50	15.20	11.20	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 8:45 PM	331.00	3.40	12.20	15.70	3.50	10.20	15.70	12.10	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 9:00 PM	325.00	4.50	12.60	16.20	3.60	10.60	16.20	14.50	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 9:15 PM	333.00	3.10	12.50	15.70	3.20	10.60	15.70	14.50	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 9:30 PM	351.00	3.50	12.30	15.30	3.00	10.20	15.30	11.60	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 9:45 PM	323.00	2.80	12.50	15.60	3.10	10.30	15.60	12.70	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 10:00 PM	329.00	2.60	12.20	15.40	3.20	10.50	15.40	12.10	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/5/14 10:15 PM	322.00	2.50	11.70	15.10	3.40	10.00												



Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (ug/m ³)							Naphthalene (ug/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
2/6/14 6:15 AM	256.00	3.80	11.20	12.40	1.20	12.40	14.10	11.20	10.90	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 6:30 AM	262.00	4.50	11.70	12.80	1.10	12.80	14.50	11.70	11.40	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 6:45 AM	269.00	2.70	12.60	13.00	0.40	13.00	14.80	12.60	12.40	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 7:00 AM	265.00	3.30	13.50	13.80	0.30	13.80	15.60	13.50	12.60	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 7:15 AM	259.00	4.20	13.60	14.50	0.90	14.50	16.00	13.60	19.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 7:30 AM	241.00	2.80	13.70	14.30	0.60	14.30	16.20	13.70	13.80	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 7:45 AM	256.00	4.50	15.50	14.90	0.00	14.90	16.60	15.50	13.90	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 8:00 AM	274.00	5.00	13.90	16.70	2.80	15.00	16.70	14.40	13.90	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 8:15 AM	252.00	4.60	14.90	14.60	0.00	14.60	16.50	14.90	14.60	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 8:30 AM	262.00	4.80	14.90	15.60	0.70	15.60	17.30	14.90	14.90	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 8:45 AM	256.00	4.80	14.60	15.50	0.90	15.50	16.40	14.60	14.90	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 9:00 AM	264.00	4.70	14.90	15.70	0.80	15.70	16.80	14.90	15.90	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 9:15 AM	270.00	4.20	16.20	17.10	0.90	16.60	17.10	14.30	16.20	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 9:30 AM	266.00	4.20	13.90	16.40	2.50	16.40	16.70	13.90	14.90	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 9:45 AM	290.00	5.20	13.30	16.80	3.50	16.50	16.80	13.80	13.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 10:00 AM	259.00	3.80	15.00	16.90	1.90	16.90	17.30	15.00	13.10	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 10:15 AM	294.00	5.10	13.00	17.90	4.90	17.50	17.90	15.40	13.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 10:30 AM	277.00	4.00	13.30	17.40	4.10	18.20	17.40	14.60	13.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 10:45 AM	265.00	5.70	13.50	16.20	2.70	16.20	16.80	13.50	12.70	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 11:00 AM	267.00	5.20	14.60	14.80	0.20	14.80	16.40	14.60	13.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 11:15 AM	280.00	5.90	12.60	16.90	4.30	14.80	16.90	12.70	12.60	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 11:30 AM	245.00	2.90	13.10	13.70	0.60	13.70	19.30	13.10	12.10	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 11:45 AM	251.00	3.20	13.20	13.00	0.00	13.00	16.40	13.20	11.40	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 12:00 PM	243.00	5.50	12.60	13.40	0.80	13.40	16.70	12.60	11.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 12:15 PM	264.00	5.70	11.50	12.70	1.20	12.70	15.50	11.50	12.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 12:30 PM	277.00	6.10	13.10	17.10	4.00	13.50	17.10	12.90	13.10	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 12:45 PM	275.00	7.70	13.20	15.60	2.40	13.80	15.60	12.70	13.20	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 1:00 PM	266.00	6.70	13.50	14.10	0.60	14.10	15.30	13.50	13.20	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 1:15 PM	282.00	7.50	12.70	14.80	2.10	12.50	14.80	12.10	12.70	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 1:30 PM	274.00	6.30	11.70	13.80	2.10	12.00	13.80	10.70	11.70	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 1:45 PM	262.00	6.00	13.10	11.70	0.00	11.70	14.40	13.10	11.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 2:00 PM	277.00	3.80	12.00	15.70	3.70	11.70	15.70	15.10	12.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 2:15 PM	261.00	5.70	16.20	15.10	0.00	15.10	15.90	16.20	15.20	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 2:30 PM	286.00	7.20	13.80	13.60	0.00	13.30	13.60	12.30	13.80	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 2:45 PM	276.00	6.90	12.60	14.90	2.30	11.80	14.90	13.10	12.60	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 3:00 PM	231.00	5.80	14.60	13.50	0.00	13.50	14.50	14.60	14.20	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 3:15 PM	234.00	6.70	13.60	12.90	0.00	12.90	15.00	13.60	13.70	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 3:30 PM	256.00	5.00	13.80	12.60	0.00	12.60	13.80	13.80	13.90	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 3:45 PM	239.00	5.70	13.20	0.00	0.00	0.00	14.00	13.20	14.10	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 4:00 PM	261.00	5.70	13.80	12.70	0.00	12.70	13.60	13.80	14.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 4:15 PM	259.00	6.30	13.70	12.60	0.00	12.60	13.80	13.70	14.20	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 4:30 PM	247.00	5.80	12.40	12.40	0.00	12.40	13.00	12.40	16.90	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 4:45 PM	272.00	6.10	13.70	13.50	0.00	12.10	13.50	12.20	13.70	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 5:00 PM	237.00	6.10	12.60	11.90	0.00	11.90	13.50	12.60	13.90	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 5:15 PM	249.00	6.20	11.70	12.10	0.40	12.10	13.90	11.70	14.20	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 5:30 PM	252.00	6.40	11.70	12.20	0.50	12.20	14.50	11.70	14.60	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 5:45 PM	251.00	6.00	11.70	14.40	2.70	14.40	13.80	11.70	16.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 6:00 PM	250.00	5.50	10.70	11.60	0.90	11.60	14.00	10.70	14.40	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 6:15 PM	260.00	4.80	9.70	9.90	0.20	9.90	13.30	9.70	14.60	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 6:30 PM	255.00	8.50	7.90	10.20	2.30	10.20	12.90	7.90	14.70	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 6:45 PM	265.00	6.50	8.10	9.80	1.70	9.80	16.80	8.10	15.10	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 7:00 PM	273.00	5.40	15.40	13.30	0.00	9.50	13.30	8.20	15.40	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 7:15 PM	266.00	4.80	8.90	9.00	0.10	9.00	20.70	8.90	14.80	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 7:30 PM	276.00	6.00	14.50	17.70	3.20	9.80	17.70	8.40	14.50	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 7:45 PM	242.00	3.80	13.00	11.30	0.00	11.30	23.50	13.00	20.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 8:00 PM	234.00	5.50	11.50	13.40	1.90	13.40	15.90	11.50	17.10	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 8:15 PM	261.00	6.30	9.50	10.50	1.00	10.50	15.70	9.50	15.10	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 8:30 PM	253.00	4.60	8.70	9.90	1.20	9.90	21.00	8.70	14.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 8:45 PM	266.00	5.60	8.00	9.80	1.80	9.80	18.50	8.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 9:00 PM	253.00	5.00	9.30	10.50	1.20	10.50	26.30	9.30	14.50	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 9:15 PM	251.00	4.70	9.40	11.40	2.00	11.40	22.30	9.40	15.20	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 9:30 PM	264.00	5.30	31.10	13.50	0.00	13.50	17.80	31.10	15.90	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 9:45 PM	246.00	3.90	9.30	12.50	3.20	12.50	14.30	9.30	15.60	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 10:00 PM	252.00	4.60	10.60	12.90	2.30	12.90	15.00	10.60	15.20	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 10:15 PM	248.00	3.40	11.30	0.00	0.00	0.00	15.70	11.30	15.90	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 10:30 PM	249.00	4.50	12.50	14.10	1.60	14.10	16.00	12.50	15.70	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 10:45 PM	259.00	4.80	13.20	0.00	0.00	0.00	16.70	13.20	15.90	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 11:00 PM	250.00	4.50	13.40	14.10	0.70	14.10	17.10	13.40	15.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 11:15 PM	253.00	3.70	12.30	13.80	1.50	13.80	16.60	12.30	15.40	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 11:30 PM	244.00	5.10	12.20	13.60	1.40	13.60	16.60	12.20	14.90	0.00	0.00	0.00	0.00	0.00	0.00	
2/6/14 11:45 PM	249.00	3.50	12.50	13.00	0.50	13.00	16.40	12.50	14.60	0.00	0.00	0.00	0.00	0.00	0.00	
2/7/14 12:00 AM	259.00	4.40	12.40	13.30	0.90	13.30	16.50	12.40	14.60	0.00	0.00	0.00	0.00	0.00	0.00	
2/7/14 12:15 AM	273.00	5.20	15.40	15.80	0.40	13.70	15.80	12.30	15.40	0.00	0.00	0.00	0.00	0.00	0.00	
2/7/14 12:30 AM	253.00	4.00	12.00	14.10	2.10	14.1										



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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)							Naphthalene (µg/m³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
2/8/14 8:45 AM	211.00	2.70	31.20	24.80	0.00	24.80	25.50	31.20	25.80	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 9:00 AM	205.00	2.50	28.60	24.10	0.00	24.10	25.80	28.60	25.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 9:15 AM	204.00	3.20	29.50	21.90	0.00	21.90	24.00	29.50	23.50	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 9:30 AM	209.00	2.90	25.10	22.20	0.00	22.20	23.70	25.10	22.80	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 9:45 AM	207.00	2.60	23.70	21.50	0.00	21.50	23.90	23.70	20.90	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 10:00 AM	157.00	2.10	25.70	18.80	0.00	23.00	25.70	26.40	18.80	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 10:15 AM	174.00	3.90	23.30	19.30	0.00	21.10	23.30	25.50	19.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 10:30 AM	193.00	2.80	24.70	21.30	0.00	21.30	23.20	24.70	18.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 10:45 AM	195.00	2.80	22.50	20.40	0.00	20.40	21.60	22.50	18.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 11:00 AM	193.00	3.00	19.90	17.00	0.00	17.00	19.50	19.90	16.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 11:15 AM	203.00	2.80	17.80	16.40	0.00	16.40	18.50	17.80	16.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 11:30 AM	172.00	3.70	19.90	15.80	0.00	17.00	19.90	19.40	15.80	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 11:45 AM	189.00	2.50	18.70	15.90	0.00	15.90	19.20	18.70	16.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 12:00 PM	201.00	3.50	14.80	15.20	0.40	15.20	19.30	14.80	14.60	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 12:15 PM	193.00	4.00	15.30	13.50	0.00	13.50	16.20	15.30	14.70	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 12:30 PM	184.00	3.40	16.10	13.10	0.00	13.10	16.20	16.10	15.20	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 12:45 PM	193.00	4.40	16.50	15.10	0.00	15.10	18.20	16.50	15.40	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 1:00 PM	215.00	2.00	15.80	14.60	0.00	14.60	19.40	15.80	15.80	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 1:15 PM	209.00	2.00	17.90	15.90	0.00	15.90	20.40	17.90	17.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 1:30 PM	171.00	1.80	19.50	18.10	0.00	16.40	19.50	20.10	18.10	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 1:45 PM	198.00	4.00	20.60	17.10	0.00	17.10	21.00	20.60	18.20	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 2:00 PM	168.00	2.60	22.40	19.10	0.00	19.20	22.40	35.50	19.10	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 2:15 PM	189.00	2.30	26.50	20.30	0.00	20.30	25.60	26.50	19.90	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 2:30 PM	183.00	2.90	28.60	20.90	0.00	20.90	27.60	28.60	19.80	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 2:45 PM	177.00	2.50	26.10	18.30	0.00	23.20	26.10	27.00	18.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 3:00 PM	190.00	3.40	30.30	22.80	0.00	22.80	26.40	30.30	18.20	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 3:15 PM	159.00	3.20	28.50	19.60	0.00	25.10	28.50	39.10	19.60	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 3:30 PM	167.00	2.70	30.20	18.40	0.00	24.80	30.20	28.10	18.40	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 3:45 PM	162.00	3.20	26.20	18.30	0.00	24.60	26.20	26.00	18.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 4:00 PM	182.00	2.60	28.10	23.60	0.00	23.60	27.00	28.10	18.80	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 4:15 PM	172.00	3.80	25.80	19.30	0.00	22.90	25.80	27.60	19.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 4:30 PM	172.00	2.20	27.00	19.90	0.00	21.30	27.00	26.30	19.90	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 4:45 PM	214.00	2.60	26.00	20.40	0.00	20.40	26.10	26.00	18.90	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 5:00 PM	196.00	2.10	23.20	0.00	0.00	0.00	22.20	23.20	19.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 5:15 PM	191.00	2.20	24.50	20.00	0.00	20.00	25.10	24.50	20.20	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 5:30 PM	183.00	1.90	25.60	21.40	0.00	21.40	28.20	25.60	20.10	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 5:45 PM	179.00	2.90	26.60	22.20	0.00	21.20	26.60	28.10	22.20	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 6:00 PM	190.00	2.70	26.00	22.60	0.00	22.60	27.20	26.00	22.20	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 6:15 PM	178.00	2.40	29.20	23.60	0.00	21.60	29.20	27.30	23.60	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 6:30 PM	184.00	3.00	27.20	22.70	0.00	22.70	27.30	27.20	23.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 6:45 PM	159.00	2.20	28.30	23.00	0.00	24.10	28.30	27.70	23.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 7:00 PM	179.00	3.20	28.10	21.80	0.00	24.60	28.10	27.90	21.80	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 7:15 PM	172.00	3.10	29.80	21.40	0.00	25.10	29.80	28.90	21.40	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 7:30 PM	180.00	2.20	31.60	30.70	0.00	30.70	32.70	31.60	22.80	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 7:45 PM	169.00	2.00	31.60	23.40	0.00	28.30	31.60	32.20	23.40	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 8:00 PM	187.00	2.10	33.80	0.00	0.00	0.00	33.00	33.80	24.10	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 8:15 PM	183.00	2.00	33.70	28.90	0.00	28.90	32.90	33.70	25.60	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 8:30 PM	182.00	1.50	33.70	30.30	0.00	30.30	32.90	33.70	26.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 8:45 PM	166.00	2.10	33.50	26.70	0.00	30.10	33.50	34.00	26.70	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 9:00 PM	169.00	2.20	34.10	26.70	0.00	30.70	34.10	35.10	26.70	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 9:15 PM	196.00	2.70	35.00	32.40	0.00	32.40	35.00	35.00	27.70	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 9:30 PM	176.00	1.50	37.80	29.50	0.00	33.90	37.80	36.50	29.50	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 9:45 PM	170.00	2.30	38.10	30.20	0.00	35.40	38.10	36.70	30.20	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 10:00 PM	173.00	1.40	39.90	32.30	0.00	0.00	39.90	38.30	32.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 10:15 PM	212.00	2.30	38.30	37.40	0.00	37.40	39.90	38.30	33.10	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 10:30 PM	214.00	2.10	39.70	37.30	0.00	37.30	38.70	39.70	33.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 10:45 PM	219.00	1.40	38.80	36.30	0.00	36.30	37.90	38.80	32.20	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 11:00 PM	233.00	1.50	40.50	36.40	0.00	36.40	38.60	40.50	33.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 11:15 PM	210.00	1.70	39.30	36.20	0.00	36.20	40.90	39.30	34.10	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 11:30 PM	228.00	2.00	37.50	33.20	0.00	33.20	35.90	37.50	29.80	0.00	0.00	0.00	0.00	0.00	0.00	
2/8/14 11:45 PM	210.00	1.70	35.60	31.20	0.00	31.20	34.70	35.60	29.80	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/14 12:00 AM	214.00	1.80	36.10	31.60	0.00	31.60	34.80	36.10	30.10	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/14 12:15 AM	217.00	1.90	35.10	30.50	0.00	30.50	33.30	35.10	28.70	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/14 12:30 AM	243.00	1.60	34.30	30.30	0.00	30.30	32.00	34.30	27.70	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/14 12:45 AM	244.00	1.50	30.00	27.90	0.00	27.90	32.60	30.00	28.80	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/14 1:00 AM	239.00	1.90	31.20	28.40	0.00	28.40	30.20	31.20	28.40	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/14 1:15 AM	249.00	2.60	33.10	28.40	0.00	28.40	31.90	33.10	27.90	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/14 1:30 AM	255.00	2.00	32.30	29.00	0.00	29.00	32.90	32.30	28.10	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/14 1:45 AM	268.00	2.20	31.40	28.30	0.00	28.30	31.90	31.40	26.60	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/14 2:00 AM	276.00	2.60	24.20	29.10	4.90	25.40	29.10	26.80	24.20	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/14 2:15 AM	295.00	1.80	26.20	27.00	0.80	24.50	27.00	25.60	26.20	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/14 2:30 AM	283.00	2.20	25.30	28.40	3.10	23.90	28.40	27.20	25.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/14 2:45 AM	293.00	2.10	23.90	29.40	5.50	24.80	29.40	28.30								



**US Army Corps
of Engineers®**

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Confined Disposal Facility
Real-Time Air Monitoring Data
February 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
2/9/14 10:00 AM	312.00	3.10	25.20	24.60	0.00	23.50	24.60	22.50	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 10:15 AM	316.00	3.40	23.00	24.10	1.10	23.00	24.10	22.50	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 10:30 AM	324.00	3.90	22.00	23.40	1.40	0.00	23.40	21.50	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 10:45 AM	310.00	3.60	21.90	23.60	1.70	0.00	23.60	22.10	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 11:00 AM	324.00	4.10	22.10	23.40	1.30	20.80	23.40	21.80	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 11:15 AM	305.00	5.10	22.10	23.10	1.00	0.00	23.10	22.50	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 11:30 AM	320.00	3.80	22.40	23.30	0.90	20.60	23.30	22.50	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 11:45 AM	329.00	6.20	21.20	23.00	1.80	18.50	23.00	20.90	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 12:00 PM	311.00	4.90	20.90	21.50	0.60	17.90	21.50	20.10	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 12:15 PM	299.00	6.00	21.60	20.80	0.00	19.00	20.80	19.70	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 12:30 PM	277.00	6.30	22.80	21.30	0.00	19.30	21.30	19.40	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 12:45 PM	303.00	4.90	20.60	19.80	0.00	16.90	19.80	16.70	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 1:00 PM	330.00	5.60	23.30	18.50	0.00	0.00	18.50	16.10	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 1:15 PM	293.00	5.40	18.90	17.90	0.00	16.80	17.90	15.80	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 1:30 PM	312.00	4.50	17.00	15.60	0.00	14.00	15.60	13.10	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 1:45 PM	324.00	5.30	22.00	16.20	0.00	17.50	16.20	16.30	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 2:00 PM	329.00	5.40	20.30	17.00	0.00	0.00	17.00	15.30	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 2:15 PM	312.00	2.80	20.20	18.70	0.00	16.50	18.70	17.70	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 2:30 PM	321.00	4.00	20.90	19.20	0.00	18.00	19.20	18.40	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 2:45 PM	327.00	2.70	23.50	18.60	0.00	17.40	18.60	19.10	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 3:00 PM	293.00	2.60	23.00	18.90	0.00	17.50	18.90	19.10	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 3:15 PM	272.00	3.50	21.90	19.50	0.00	19.90	19.50	19.10	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 3:30 PM	295.00	4.20	23.50	20.30	0.00	17.80	20.30	19.80	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 3:45 PM	317.00	2.70	23.30	20.50	0.00	18.00	20.50	20.30	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 4:00 PM	303.00	3.60	25.50	22.10	0.00	20.10	22.10	22.30	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 4:15 PM	295.00	4.80	24.90	20.40	0.00	19.80	20.40	20.00	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 4:30 PM	321.00	4.20	23.20	20.20	0.00	0.00	20.20	21.20	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 4:45 PM	287.00	5.80	24.30	21.80	0.00	19.60	21.80	21.80	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 5:00 PM	297.00	4.70	24.10	21.40	0.00	20.20	21.40	23.60	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 5:15 PM	319.00	4.40	25.50	24.00	0.00	21.60	24.00	25.50	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 5:30 PM	317.00	3.90	24.60	23.10	0.00	21.00	23.10	26.80	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 5:45 PM	313.00	3.80	27.50	25.50	0.00	23.50	25.50	30.00	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 6:00 PM	303.00	4.20	30.20	27.20	0.00	25.60	27.20	29.70	30.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 6:15 PM	297.00	3.50	30.20	28.30	0.00	27.30	28.30	30.90	30.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 6:30 PM	294.00	6.80	34.30	31.90	0.00	32.80	31.90	33.80	34.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 6:45 PM	283.00	4.20	35.50	34.10	0.00	34.20	34.10	42.20	35.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 7:00 PM	277.00	3.00	36.70	35.20	0.00	36.30	35.20	40.10	36.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 7:15 PM	288.00	2.60	36.60	34.20	0.00	35.30	34.20	36.00	36.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 7:30 PM	287.00	2.80	33.90	34.20	0.30	33.90	34.20	38.10	33.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 7:45 PM	286.00	3.30	34.70	35.70	1.00	35.00	35.70	39.10	34.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 8:00 PM	282.00	2.80	35.20	35.90	0.70	36.10	35.90	39.30	35.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 8:15 PM	283.00	2.60	35.20	36.70	1.50	35.90	36.70	39.40	35.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 8:30 PM	281.00	3.80	34.70	36.60	1.90	35.80	36.60	40.70	34.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 8:45 PM	274.00	3.50	35.70	36.00	0.30	37.70	36.00	46.60	35.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 9:00 PM	269.00	2.80	44.60	39.40	0.00	39.40	39.40	44.60	38.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 9:15 PM	285.00	3.10	39.50	39.70	0.20	41.30	39.70	48.30	39.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 9:30 PM	285.00	3.40	40.50	40.50	0.00	43.50	40.50	45.20	40.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 9:45 PM	275.00	2.30	42.10	44.10	2.00	46.40	44.10	52.50	42.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 10:00 PM	265.00	3.10	55.90	50.80	0.00	50.80	46.50	55.90	46.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 10:15 PM	266.00	3.00	57.50	52.80	0.00	52.80	49.90	57.50	48.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 10:30 PM	269.00	2.90	59.80	52.30	0.00	52.30	52.80	59.80	47.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 10:45 PM	286.00	3.20	50.00	54.90	4.90	0.00	54.90	62.10	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 11:00 PM	309.00	2.30	51.50	54.90	3.40	0.00	54.90	62.10	51.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 11:15 PM	264.00	2.90	65.00	61.20	0.00	61.20	57.30	65.00	54.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 11:30 PM	265.00	2.70	67.60	62.10	0.00	62.10	59.30	67.60	55.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/9/14 11:45 PM	274.00	2.90	54.80	63.50	8.70	0.00	63.50	68.20	54.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 12:00 AM	269.00	2.90	68.90	60.30	0.00	60.30	63.50	68.90	54.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 12:15 AM	267.00	2.90	67.90	61.70	0.00	61.70	62.60	67.90	55.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 12:30 AM	267.00	2.80	66.10	61.00	0.00	61.00	60.80	66.10	54.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 12:45 AM	266.00	3.00	63.30	59.30	0.00	59.30	60.50	63.30	53.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 1:00 AM	266.00	3.20	59.70	58.00	0.00	58.00	57.90	59.70	52.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 1:15 AM	264.00	2.20	57.60	55.00	0.00	55.00	54.50	57.60	48.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 1:30 AM	286.00	2.30	47.50	53.60	6.10	51.10	53.60	54.50	47.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 1:45 AM	284.00	2.30	43.80	51.20	7.40	46.40	51.20	51.30	43.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 2:00 AM	265.00	1.90	46.90	0.00	0.00	0.00	45.20	46.90	40.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 2:15 AM	287.00	2.00	39.80	44.00	4.20	0.00	44.00	43.60	39.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 2:30 AM	279.00	1.60	37.60	40.70	3.10	40.70	40.70	41.80	37.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 2:45 AM	272.00	2.20	35.70	40.60	4.90	37.40	40.60	40.40	35.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 3:00 AM	269.00	2.10	39.70	38.10	0.00	38.10	40.30	39.70	34.10	0.00	0.00							



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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)								Naphthalene (µg/m³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
2/10/14 11:15 AM	331.00	2.50	19.80	22.20	2.40	20.40	22.20	19.40	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 11:30 AM	328.00	2.90	14.10	14.10	0.00	12.80	14.10	14.30	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 11:45 AM	343.00	2.70	18.00	18.80	0.80	15.50	18.80	15.50	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 12:00 PM	325.00	3.40	18.00	20.70	2.70	16.70	20.70	17.70	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 12:15 PM	342.00	3.70	16.60	18.80	2.20	15.40	18.80	15.00	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 12:30 PM	334.00	3.90	16.10	17.00	0.90	15.60	17.00	12.50	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 12:45 PM	314.00	3.70	15.50	15.60	0.10	14.20	15.60	12.20	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 1:00 PM	292.00	1.90	15.50	16.40	0.90	13.50	16.40	13.60	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 1:15 PM	322.00	3.20	16.50	18.00	1.50	14.60	18.00	16.90	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 1:30 PM	338.00	2.30	16.70	17.70	1.00	14.20	17.70	15.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 1:45 PM	289.00	2.80	16.80	17.60	0.80	14.70	17.60	15.50	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 2:00 PM	305.00	4.80	16.90	17.70	0.80	14.40	17.70	16.40	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 2:15 PM	320.00	4.60	15.40	16.90	1.50	12.80	16.90	14.00	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 2:30 PM	355.00	2.40	15.30	16.00	0.70	13.30	16.00	13.80	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 2:45 PM	330.00	3.10	16.70	16.70	0.00	13.70	16.70	16.10	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 3:00 PM	333.00	2.30	18.10	17.80	0.00	14.80	17.80	17.80	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 3:15 PM	323.00	3.70	17.00	17.70	0.70	14.20	17.70	17.20	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 3:30 PM	311.00	3.60	16.20	16.60	0.40	13.20	16.60	15.50	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 3:45 PM	350.00	2.30	17.30	16.10	0.00	13.50	16.10	19.70	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 4:00 PM	310.00	2.80	17.90	17.60	0.00	13.90	17.60	16.50	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 4:15 PM	324.00	4.10	17.40	16.10	0.00	13.00	16.10	15.00	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 4:30 PM	320.00	4.00	17.70	16.80	0.00	13.60	16.80	16.80	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 4:45 PM	321.00	3.30	20.00	17.50	0.00	14.40	17.50	17.80	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 5:00 PM	327.00	3.30	18.20	17.30	0.00	14.50	17.30	15.70	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 5:15 PM	330.00	3.70	19.20	18.50	0.00	14.60	18.50	16.00	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 5:30 PM	351.00	2.60	19.20	18.30	0.00	13.30	18.30	16.50	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 5:45 PM	314.00	3.40	20.00	17.90	0.00	14.70	17.90	18.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 6:00 PM	312.00	2.30	19.70	18.50	0.00	14.60	18.50	16.20	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 6:15 PM	301.00	3.50	20.10	20.30	0.20	15.80	20.30	18.10	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 6:30 PM	309.00	3.40	21.90	20.70	0.00	17.90	20.70	18.40	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 6:45 PM	322.00	2.70	23.00	23.90	0.90	18.60	23.90	19.90	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 7:00 PM	316.00	3.80	23.10	24.60	1.50	19.50	24.60	23.80	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 7:15 PM	329.00	3.30	23.00	23.80	0.80	19.40	23.80	22.30	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 7:30 PM	298.00	2.60	24.60	25.60	1.00	19.70	25.60	24.60	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 7:45 PM	286.00	2.40	25.40	26.50	1.10	22.10	26.50	25.00	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 8:00 PM	304.00	2.90	27.80	27.30	0.00	0.00	27.30	27.30	27.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 8:15 PM	302.00	2.40	30.00	29.80	0.00	27.10	29.80	37.40	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 8:30 PM	299.00	3.00	30.20	28.40	0.00	27.60	28.40	29.00	30.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 8:45 PM	299.00	3.00	29.70	28.40	0.00	26.50	28.40	84.90	29.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 9:00 PM	306.00	2.60	29.70	29.40	0.00	26.50	29.40	227.90	29.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 9:15 PM	303.00	2.30	30.50	27.90	0.00	29.20	27.90	25.80	30.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 9:30 PM	291.00	1.90	28.30	29.30	1.00	28.70	29.30	25.80	28.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 9:45 PM	301.00	2.20	30.70	28.40	0.00	29.20	28.40	24.90	30.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 10:00 PM	298.00	1.80	29.90	29.30	0.00	30.30	29.30	25.10	29.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 10:15 PM	319.00	2.70	26.70	29.70	3.00	27.00	29.70	26.60	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 10:30 PM	320.00	3.00	27.80	30.60	2.80	26.60	30.60	25.50	27.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 10:45 PM	305.00	2.20	26.50	29.30	2.80	26.00	29.30	26.50	26.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 11:00 PM	285.00	2.40	28.20	29.70	1.50	26.60	29.70	27.60	28.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 11:15 PM	274.00	2.70	28.20	30.70	2.50	26.40	30.70	28.50	28.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 11:30 PM	305.00	2.30	28.60	31.90	3.30	30.60	31.90	29.20	28.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/10/14 11:45 PM	277.00	2.60	27.40	30.90	3.50	29.20	30.90	27.40	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 12:00 AM	309.00	2.10	28.90	30.00	1.10	29.10	30.00	27.30	28.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 12:15 AM	303.00	1.90	28.70	29.40	0.70	29.10	29.40	27.60	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 12:30 AM	311.00	2.30	29.10	30.70	1.60	30.50	30.70	27.90	29.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 12:45 AM	301.00	2.60	30.30	30.70	0.40	29.80	30.70	27.90	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 1:00 AM	314.00	2.50	33.80	31.70	0.00	32.50	31.70	28.90	33.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 1:15 AM	275.00	2.30	32.90	33.60	0.70	32.80	33.60	30.50	32.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 1:30 AM	307.00	2.10	30.40	32.80	2.40	32.10	32.80	29.60	30.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 1:45 AM	274.00	1.20	32.30	31.70	0.00	31.40	31.70	28.40	32.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 2:00 AM	262.00	1.80	30.90	47.20	16.30	47.20	31.20	30.90	30.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 2:15 AM	219.00	1.20	28.00	33.00	5.00	33.00	31.80	28.00	31.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 2:30 AM	251.00	1.50	40.80	38.70	0.00	38.70	37.10	40.80	30.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 2:45 AM	264.00	1.90	40.00	35.80	0.00	35.80	39.60	40.00	36.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 3:00 AM	299.00	1.60	31.50	40.20	8.70	36.10	40.20	43.80	31.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 3:15 AM	303.00	2.20	30.10	39.40	9.30	32.80	39.40	40.20	30.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 3:30 AM	274.00	2.00	30.50	36.70	6.20	32.60	36.70	34.90	30.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 3:45 AM	295.00	2.80	38.50	34.60	0.00	36.10	34.60	32.90	38.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 4:00 AM	306.00	2.70	31.40	35.40	4.00	32.40	35.40	34.50	31.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 4:15 AM	319.00	2.60	30.60	35.30	4.70	30.90												



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February 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
2/11/14 12:30 PM	245.00	4.00	21.50	17.20	0.00	17.20	22.40	21.50	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 12:45 PM	220.00	3.10	16.60	15.70	0.00	15.70	19.90	16.60	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 1:00 PM	219.00	5.40	15.10	14.10	0.00	14.10	18.60	15.10	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 1:15 PM	221.00	4.00	16.10	14.60	0.00	14.60	18.70	16.10	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 1:30 PM	199.00	3.70	16.90	15.40	0.00	15.40	19.40	16.90	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 1:45 PM	189.00	3.10	15.40	13.30	0.00	13.30	17.20	15.40	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 2:00 PM	213.00	2.60	13.00	12.60	0.00	12.60	15.80	13.00	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 2:15 PM	203.00	4.90	11.00	10.20	0.00	10.20	15.50	11.00	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 2:30 PM	192.00	2.60	12.20	11.80	0.00	11.80	15.00	12.20	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 2:45 PM	198.00	4.30	14.20	12.60	0.00	12.60	15.70	14.20	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 3:00 PM	199.00	4.30	18.30	14.00	0.00	14.00	17.00	18.30	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 3:15 PM	216.00	3.40	18.10	15.00	0.00	15.00	18.70	18.10	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 3:30 PM	248.00	3.90	17.50	0.00	0.00	0.00	18.50	17.50	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 3:45 PM	249.00	2.50	16.80	13.70	0.00	13.70	19.20	16.80	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 4:00 PM	212.00	3.90	17.20	14.50	0.00	14.50	20.20	17.20	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 4:15 PM	211.00	2.10	17.30	0.00	0.00	0.00	19.40	17.30	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 4:30 PM	215.00	3.50	18.80	15.00	0.00	15.00	19.10	18.80	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 4:45 PM	212.00	3.50	18.30	15.60	0.00	15.60	21.00	18.30	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 5:00 PM	176.00	2.90	19.40	20.40	1.00	14.50	19.40	18.00	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 5:15 PM	213.00	2.80	18.70	15.60	0.00	15.60	20.40	18.70	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 5:30 PM	191.00	2.00	18.90	0.00	0.00	0.00	20.30	18.90	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 5:45 PM	188.00	3.70	17.80	16.90	0.00	16.90	20.90	17.80	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 6:00 PM	195.00	3.00	17.90	15.90	0.00	15.90	21.70	17.90	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 6:15 PM	201.00	2.90	19.40	13.90	0.00	13.90	19.00	19.40	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 6:30 PM	201.00	2.30	17.20	14.30	0.00	14.30	19.00	17.20	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 6:45 PM	187.00	1.80	17.90	14.80	0.00	14.80	21.60	17.90	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 7:00 PM	182.00	2.30	30.10	27.80	0.00	27.80	33.60	30.10	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 7:15 PM	206.00	2.10	33.00	30.60	0.00	30.60	35.00	33.00	33.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 7:30 PM	209.00	1.90	36.50	31.10	0.00	31.10	35.80	36.50	36.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 7:45 PM	175.00	2.50	37.50	36.30	0.00	31.40	37.50	34.10	36.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 8:00 PM	217.00	1.60	35.30	31.70	0.00	31.70	33.80	35.30	35.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 8:15 PM	195.00	2.50	37.40	33.20	0.00	33.20	32.70	37.40	36.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 8:30 PM	194.00	2.00	37.50	30.30	0.00	30.30	36.00	37.50	36.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 8:45 PM	182.00	2.10	35.00	33.10	0.00	33.10	36.40	35.00	34.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 9:00 PM	187.00	1.90	37.20	35.90	0.00	35.90	38.00	37.20	34.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 9:15 PM	177.00	1.40	44.40	35.60	0.00	39.20	44.00	40.40	35.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 9:30 PM	184.00	1.90	40.20	38.70	0.00	38.70	41.00	40.20	39.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 9:45 PM	166.00	2.00	42.80	40.70	0.00	0.00	42.80	44.50	40.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 10:00 PM	199.00	2.10	49.00	42.10	0.00	42.10	44.60	49.00	44.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 10:15 PM	185.00	1.90	52.80	43.40	0.00	43.40	45.30	52.80	45.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 10:30 PM	192.00	1.80	54.60	44.20	0.00	44.20	45.60	54.60	47.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 10:45 PM	193.00	1.30	54.60	44.20	0.00	44.20	45.60	54.60	47.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 11:00 PM	209.00	2.10	61.40	43.50	0.00	43.50	44.50	61.40	44.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 11:15 PM	203.00	2.10	49.40	46.10	0.00	46.10	47.70	49.40	44.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 11:30 PM	176.00	2.90	47.50	44.00	0.00	44.50	47.50	51.20	44.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/11/14 11:45 PM	192.00	4.20	48.90	46.20	0.00	46.20	45.70	48.90	43.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 12:00 AM	182.00	3.00	46.40	44.30	0.00	44.30	48.80	46.40	44.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 12:15 AM	170.00	2.50	46.40	41.70	0.00	45.00	46.40	43.00	41.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 12:30 AM	180.00	2.60	41.50	44.70	3.20	44.70	45.40	41.50	40.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 12:45 AM	169.00	4.00	45.20	40.60	0.00	42.80	45.20	45.20	40.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 1:00 AM	173.00	2.30	47.40	40.10	0.00	45.00	47.40	45.90	40.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 1:15 AM	159.00	1.60	47.90	39.10	0.00	44.30	47.90	44.10	39.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 1:30 AM	177.00	2.70	48.20	40.00	0.00	44.70	48.20	47.90	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 1:45 AM	124.00	3.20	46.80	39.80	0.00	45.60	46.80	47.70	39.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 2:00 AM	218.00	2.10	47.10	51.30	4.20	51.30	47.00	47.10	39.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 2:15 AM	185.00	1.20	48.40	43.50	0.00	43.50	45.80	48.40	38.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 2:30 AM	173.00	1.80	47.00	39.30	0.00	45.30	47.00	49.40	39.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 2:45 AM	166.00	1.60	44.80	37.20	0.00	43.60	44.80	46.10	37.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 3:00 AM	180.00	1.40	42.90	41.80	0.00	41.80	46.80	42.90	36.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 3:15 AM	144.00	2.20	43.80	36.30	0.00	118.30	43.80	44.70	36.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 3:30 AM	175.00	2.40	44.10	35.90	0.00	41.20	44.10	41.80	35.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 3:45 AM	175.00	3.00	44.10	35.90	0.00	40.80	44.10	39.60	35.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 4:00 AM	135.00	2.60	41.60	36.80	0.00	40.30	41.60	39.70	36.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 4:15 AM	189.00	3.00	38.20	37.40	0.00	37.40	40.20	38.20	36.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 4:30 AM	195.00	3.00	38.50	35.90	0.00	35.90	38.50	38.50	33.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 4:45 AM	177.00	2.50	36.20	34.60	0.00	34.20	36.20	34.60	34.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 5:00 AM	178.00	3.20	36.00	33.70	0.00	34.70	36.00	37.20	33.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 5:15 AM	186.00	3.50	35.90	37.50	1.60	37.50	38.30	35.90	33.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 5:30 AM	182.00	2.80	36.40	37.10	0.70	37.												



US Army Corps
of Engineers®

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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
2/12/14 1:45 PM	213.00	3.10	26.90	24.70	0.00	24.70	28.10	26.90	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 2:00 PM	205.00	3.50	26.10	22.10	0.00	22.10	27.40	26.10	27.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 2:15 PM	216.00	4.20	28.00	22.70	0.00	22.70	28.20	28.00	30.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 2:30 PM	181.00	2.80	27.10	23.10	0.00	23.10	27.00	27.10	31.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 2:45 PM	184.00	3.50	26.10	21.90	0.00	21.90	26.10	26.10	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 3:00 PM	204.00	3.80	21.50	17.90	0.00	17.90	22.70	21.50	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 3:15 PM	218.00	3.60	21.10	0.00	0.00	0.00	20.70	21.10	25.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 3:30 PM	187.00	3.80	21.00	17.10	0.00	17.10	22.60	21.00	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 3:45 PM	209.00	4.10	20.80	17.00	0.00	17.00	22.00	20.80	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 4:00 PM	201.00	3.50	19.40	17.60	0.00	17.60	22.10	19.40	24.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 4:15 PM	230.00	3.30	22.00	18.80	0.00	18.80	23.00	22.00	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 4:30 PM	189.00	3.70	22.90	17.70	0.00	17.70	22.40	22.90	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 4:45 PM	203.00	3.30	28.10	17.90	0.00	17.90	21.40	28.10	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 5:00 PM	192.00	2.70	22.50	19.20	0.00	19.20	21.10	22.50	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 5:15 PM	195.00	3.50	20.60	16.10	0.00	16.10	22.00	20.60	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 5:30 PM	194.00	3.70	23.80	17.20	0.00	17.20	22.10	23.80	27.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 5:45 PM	201.00	2.20	26.30	20.20	0.00	20.20	25.30	26.30	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 6:00 PM	245.00	2.00	28.30	22.80	0.00	22.80	28.60	28.30	29.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 6:15 PM	257.00	1.50	29.30	22.80	0.00	22.80	29.60	29.30	32.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 6:30 PM	244.00	1.70	33.30	25.70	0.00	25.70	32.90	33.30	34.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 6:45 PM	240.00	1.70	36.30	27.80	0.00	27.80	35.30	36.30	35.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 7:00 PM	217.00	1.40	37.40	30.30	0.00	30.30	35.80	37.40	36.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 7:15 PM	255.00	1.20	37.30	30.30	0.00	30.30	34.90	37.30	37.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 7:30 PM	267.00	0.60	38.10	32.30	0.00	32.30	35.60	38.10	38.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 7:45 PM	303.00	0.80	41.00	38.60	0.00	0.00	38.60	43.20	41.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 8:00 PM	312.00	1.20	43.90	38.20	0.00	34.80	38.20	43.10	43.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 8:15 PM	326.00	1.00	618.10	40.30	0.00	39.90	40.30	48.20	618.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 8:30 PM	326.00	1.30	752.70	47.10	0.00	734.60	47.10	52.10	752.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 8:45 PM	303.00	1.40	317.60	260.40	0.00	245.60	260.40	110.00	317.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 9:00 PM	229.00	0.66	126.10	125.70	0.00	125.70	86.70	126.10	135.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 9:15 PM	216.00	1.00	56.20	94.10	37.90	94.10	55.80	56.20	110.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 9:30 PM	178.00	1.40	49.00	38.20	0.00	35.20	49.00	55.30	38.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 9:45 PM	164.00	1.80	54.70	37.30	0.00	34.80	54.70	56.80	37.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 10:00 PM	152.00	2.30	50.80	38.70	0.00	37.50	50.80	58.10	38.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 10:15 PM	158.00	2.80	53.30	37.40	0.00	38.10	53.30	57.40	37.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 10:30 PM	159.00	2.30	59.00	39.00	0.00	42.10	59.00	70.00	39.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 10:45 PM	167.00	2.30	73.00	45.80	0.00	44.40	73.00	73.40	45.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 11:00 PM	157.00	2.20	73.60	49.50	0.00	41.90	73.60	72.60	49.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 11:15 PM	153.00	2.40	69.00	57.30	0.00	45.90	69.00	73.80	57.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 11:30 PM	156.00	3.00	60.90	42.40	0.00	52.00	60.90	75.30	42.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/12/14 11:45 PM	162.00	2.00	64.80	41.70	0.00	35.10	64.80	65.40	41.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 12:00 AM	179.00	2.80	58.50	43.00	0.00	46.80	58.50	58.70	43.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 12:15 AM	183.00	2.30	57.10	42.70	0.00	42.70	53.30	57.10	37.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 12:30 AM	180.00	3.30	55.70	37.10	0.00	37.10	52.30	55.70	36.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 12:45 AM	178.00	2.50	52.00	37.00	0.00	36.60	52.00	54.00	37.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 1:00 AM	174.00	1.60	49.50	36.80	0.00	36.40	49.50	52.50	36.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 1:15 AM	177.00	3.50	47.30	35.10	0.00	36.10	47.30	49.90	35.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 1:30 AM	180.00	2.90	49.90	33.70	0.00	33.70	48.20	49.90	35.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 1:45 AM	169.00	1.70	49.20	34.90	0.00	34.60	49.20	51.40	34.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 2:00 AM	201.00	2.00	50.30	36.00	0.00	36.00	48.40	50.30	34.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 2:15 AM	168.00	2.50	47.40	34.60	0.00	36.60	47.40	49.00	34.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 2:30 AM	186.00	3.20	50.90	37.60	0.00	37.60	47.70	50.90	34.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 2:45 AM	174.00	3.10	50.10	36.50	0.00	39.40	50.10	50.70	36.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 3:00 AM	174.00	2.40	50.80	37.20	0.00	39.80	50.80	50.60	37.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 3:15 AM	174.00	3.90	51.40	37.90	0.00	41.00	51.40	51.00	37.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 3:30 AM	173.00	3.00	53.50	38.70	0.00	42.90	53.50	54.50	38.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 3:45 AM	180.00	5.20	56.40	43.50	0.00	43.50	55.00	56.40	39.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 4:00 AM	172.00	3.50	56.20	42.50	0.00	45.10	56.20	58.00	42.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 4:15 AM	190.00	4.40	60.90	48.70	0.00	48.70	59.00	60.90	45.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 4:30 AM	191.00	2.70	67.30	53.10	0.00	53.10	64.40	67.30	48.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 4:45 AM	193.00	3.00	77.40	57.70	0.00	57.70	67.70	77.40	53.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 5:00 AM	205.00	2.10	77.30	61.30	0.00	61.30	71.50	77.30	54.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 5:15 AM	185.00	3.10	80.40	62.20	0.00	62.20	74.80	80.40	57.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 5:30 AM	186.00	2.30	81.30	65.60	0.00	65.60	74.80	81.30	57.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 5:45 AM	185.00	2.80	84.50	68.70	0.00	68.70	81.50	84.50	60.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 6:00 AM	180.00	1.90	86.50	68.90	0.00	68.90	80.10	86.50	62.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 6:15 AM	173.00	3.10	81.30	63.70	0.00	70.90	81.30	89.00	63.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 6:30 AM	176.00	2.00	85.20	65.70	0.00	73.80	85.20	91.00	65.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 6:45 AM	170.00	2.40	88.30	67.70														



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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
2/13/14 3:00 PM	182.00	4.80	33.40	32.60	0.00	32.60	36.40	33.40	32.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 3:15 PM	194.00	6.90	32.70	36.00	3.30	36.00	41.50	32.70	33.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 3:30 PM	187.00	6.00	34.50	35.40	0.90	35.40	37.50	34.50	33.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 3:45 PM	189.00	6.40	29.30	28.00	0.00	28.00	32.80	29.30	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 4:00 PM	206.00	7.20	27.20	26.30	0.00	26.30	29.60	27.20	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 4:15 PM	199.00	5.10	27.60	0.00	0.00	0.00	30.50	27.60	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 4:30 PM	214.00	9.20	27.00	24.70	0.00	24.70	29.00	27.00	28.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 4:45 PM	228.00	6.40	24.00	21.80	0.00	21.80	26.40	24.00	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 5:00 PM	215.00	7.20	22.20	20.50	0.00	20.50	24.40	22.20	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 5:15 PM	207.00	5.80	21.10	19.70	0.00	19.70	24.10	21.10	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 5:30 PM	230.00	5.30	20.20	18.70	0.00	18.70	22.90	20.20	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 5:45 PM	217.00	4.20	21.00	20.00	0.00	20.00	24.60	21.00	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 6:00 PM	206.00	4.40	22.50	21.40	0.00	21.40	25.90	22.50	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 6:15 PM	216.00	4.00	24.60	22.00	0.00	22.00	26.90	24.60	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 6:30 PM	218.00	5.20	25.20	22.70	0.00	22.70	27.40	25.20	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 6:45 PM	213.00	4.40	25.40	22.90	0.00	22.90	28.80	25.40	26.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 7:00 PM	211.00	6.20	27.70	25.70	0.00	25.70	29.80	27.70	28.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 7:15 PM	212.00	4.30	30.10	26.70	0.00	26.70	31.20	30.10	29.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 7:30 PM	211.00	4.40	31.00	28.10	0.00	28.10	32.50	31.00	29.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 7:45 PM	218.00	5.30	34.10	30.60	0.00	30.60	36.20	34.10	31.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 8:00 PM	206.00	5.20	36.30	32.40	0.00	32.40	37.50	36.30	30.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 8:15 PM	211.00	3.80	37.90	34.00	0.00	34.00	39.50	37.90	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 8:30 PM	217.00	3.60	39.80	34.80	0.00	34.80	40.90	39.80	30.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 8:45 PM	237.00	4.80	39.90	36.00	0.00	36.00	40.60	39.90	30.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 9:00 PM	207.00	3.30	40.30	36.40	0.00	36.40	41.30	40.30	31.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 9:15 PM	221.00	5.80	39.90	36.30	0.00	36.30	41.20	39.90	31.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 9:30 PM	231.00	6.80	39.30	35.90	0.00	35.90	40.00	39.30	30.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 9:45 PM	256.00	6.80	38.50	35.00	0.00	35.00	38.30	38.50	29.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 10:00 PM	262.00	12.30	26.30	20.00	0.00	20.00	36.00	26.30	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 10:15 PM	295.00	9.40	17.60	20.10	2.50	16.60	20.10	16.30	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 10:30 PM	311.00	9.40	17.10	20.40	3.30	16.10	20.40	16.30	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 10:45 PM	299.00	8.20	16.20	21.20	5.00	15.70	21.20	16.80	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 11:00 PM	292.00	12.00	19.00	22.10	3.10	18.50	22.10	18.50	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 11:15 PM	308.00	6.50	19.00	24.30	5.30	19.00	24.30	19.30	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 11:30 PM	295.00	6.90	20.00	24.30	4.30	0.00	24.30	19.80	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/13/14 11:45 PM	315.00	6.90	21.40	25.10	3.70	20.30	25.10	20.40	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 12:00 AM	302.00	7.20	22.10	25.30	3.20	20.70	25.30	20.90	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 12:15 AM	314.00	8.40	22.50	27.70	5.20	22.70	27.70	23.40	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 12:30 AM	303.00	6.50	24.30	29.20	4.90	25.00	29.20	26.10	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 12:45 AM	324.00	9.40	25.90	30.40	4.50	25.30	30.40	26.40	25.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 1:00 AM	325.00	7.90	27.10	30.20	3.10	26.50	30.20	28.20	27.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 1:15 AM	316.00	7.00	28.40	31.90	3.50	27.70	31.90	29.60	28.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 1:30 AM	315.00	6.60	29.70	33.50	3.80	29.50	33.50	31.00	29.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 1:45 AM	298.00	4.60	30.50	34.00	3.50	30.20	34.00	31.50	30.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 2:00 AM	278.00	7.80	31.50	33.80	2.30	30.30	33.80	31.40	31.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 2:15 AM	292.00	5.60	32.40	35.00	2.60	32.10	35.00	32.80	32.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 2:30 AM	291.00	7.80	32.20	35.30	3.10	32.60	35.30	33.60	32.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 2:45 AM	295.00	5.00	31.90	35.30	3.40	32.50	35.30	34.20	31.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 3:00 AM	299.00	7.70	31.80	34.60	2.80	32.20	34.60	33.90	31.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 3:15 AM	300.00	4.80	31.70	34.80	3.10	32.10	34.80	33.50	31.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 3:30 AM	282.00	5.40	32.70	34.60	1.90	33.20	34.60	34.00	32.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 3:45 AM	277.00	4.60	32.70	35.10	2.40	33.00	35.10	34.30	32.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 4:00 AM	282.00	4.10	32.70	35.10	2.40	32.90	35.10	34.30	32.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 4:15 AM	283.00	2.80	31.80	34.90	3.10	32.60	34.90	33.80	31.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 4:30 AM	280.00	4.80	28.80	31.10	2.30	0.00	31.10	31.20	28.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 4:45 AM	280.00	4.90	29.40	31.50	2.10	30.00	31.50	30.40	29.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 5:00 AM	307.00	3.20	29.90	32.10	2.20	30.30	32.10	31.00	29.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 5:15 AM	290.00	4.30	31.10	32.40	1.30	31.60	32.40	31.30	31.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 5:30 AM	289.00	3.30	31.00	32.40	1.40	30.90	32.40	31.20	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 5:45 AM	285.00	4.00	31.10	33.30	2.20	32.00	33.30	31.60	31.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 6:00 AM	289.00	2.40	31.90	33.80	1.90	31.90	33.80	32.50	31.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 6:15 AM	290.00	3.60	31.80	33.10	1.30	32.30	33.10	32.60	31.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 6:30 AM	277.00	3.00	31.70	33.10	1.40	32.40	33.10	32.10	31.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 6:45 AM	278.00	3.50	31.80	33.50	1.70	34.30	33.50	32.20	31.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 7:00 AM	281.00	3.40	31.10	35.20	4.10	33.30	35.20	34.70	31.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 7:15 AM	298.00	3.00	31.50	35.50	4.00	32.60	35.50	35.40	31.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 7:30 AM	272.00	3.10	31.50	34.80	3.30	33.70	34.80	35.10	31.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 7:45 AM	291.00	3.70	31.50	35.30	3.80	33.40	35.30	34.90	31.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 8:00 AM	270.00	4.40	31.70	34.30	2.60	33.80												



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)								Naphthalene (µg/m³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
2/14/14 4:15 PM	344.00	3.50	34.40	35.90	1.50	31.60	35.90	35.50	34.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 4:30 PM	0.00	3.70	31.10	35.70	4.60	31.10	35.20	35.70	34.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 4:45 PM	337.00	4.80	34.00	34.40	0.40	31.50	34.40	35.50	34.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 5:00 PM	338.00	4.20	32.50	33.30	0.80	29.50	33.30	34.90	32.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 5:15 PM	9.00	5.80	27.70	32.50	4.80	27.70	30.20	32.50	30.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 5:30 PM	0.00	6.40	26.30	29.60	3.30	26.30	29.50	29.60	28.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 5:45 PM	359.00	5.80	28.50	29.10	0.60	26.00	29.10	29.20	28.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 6:00 PM	343.00	3.70	28.50	29.70	1.20	25.70	29.70	29.60	28.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 6:15 PM	1.00	4.60	24.10	30.00	5.90	24.10	29.30	30.00	28.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 6:30 PM	358.00	4.00	26.90	29.00	2.10	24.50	29.00	28.60	26.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 6:45 PM	348.00	4.10	27.00	27.90	0.90	23.30	27.90	29.50	27.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 7:00 PM	1.00	3.90	21.50	25.10	3.60	21.50	24.40	25.10	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 7:15 PM	331.00	2.80	30.50	30.00	0.00	28.10	30.00	30.80	30.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 7:30 PM	331.00	3.90	28.40	29.80	1.40	27.40	29.80	29.90	28.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 7:45 PM	323.00	3.90	27.40	28.80	1.40	26.00	28.80	29.80	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 8:00 PM	325.00	4.20	25.10	29.80	4.70	24.70	29.80	27.90	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 8:15 PM	323.00	3.00	25.50	27.70	2.20	23.70	27.70	26.70	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 8:30 PM	318.00	3.70	26.40	26.90	0.50	24.80	26.90	26.30	26.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 8:45 PM	326.00	3.40	25.50	27.00	1.50	24.80	27.00	28.60	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 9:00 PM	332.00	4.50	26.30	28.00	1.70	25.50	28.00	27.40	26.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 9:15 PM	326.00	3.40	24.50	25.80	1.30	23.20	25.80	25.80	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 9:30 PM	335.00	2.90	24.00	25.50	1.50	22.80	25.50	24.40	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 9:45 PM	295.00	3.30	26.30	27.90	1.60	27.20	27.90	28.50	26.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 10:00 PM	286.00	3.70	27.60	29.50	1.90	32.20	29.50	29.60	27.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 10:15 PM	274.00	2.80	27.50	28.60	1.10	28.10	28.60	29.30	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 10:30 PM	284.00	2.80	31.60	30.60	0.00	31.10	30.60	30.40	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 10:45 PM	277.00	2.30	30.90	33.20	2.30	32.50	33.20	31.40	30.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 11:00 PM	278.00	2.60	29.10	32.50	3.40	30.10	32.50	31.80	29.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 11:15 PM	298.00	2.80	28.60	31.60	3.00	29.50	31.60	30.60	28.60	13.10	0.00	0.00	0.00	0.00	0.00	13.10		
2/14/14 11:30 PM	292.00	2.70	28.40	31.00	2.60	29.40	31.00	30.70	28.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/14/14 11:45 PM	303.00	3.10	29.30	31.90	2.60	29.50	31.90	31.80	29.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 12:00 AM	287.00	3.70	29.80	32.20	2.40	30.60	32.20	31.70	29.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 12:15 AM	284.00	3.00	30.50	31.50	1.00	30.80	31.50	30.50	30.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 12:30 AM	297.00	3.30	29.50	31.10	1.60	30.20	31.10	29.40	29.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 12:45 AM	318.00	4.40	27.20	30.60	3.40	27.40	30.60	30.00	27.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 1:00 AM	293.00	2.70	26.70	30.20	3.50	0.00	30.20	30.20	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 1:15 AM	341.00	2.00	28.30	30.10	1.80	28.20	30.10	30.60	28.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 1:30 AM	312.00	2.80	29.00	29.20	0.20	28.50	29.20	29.00	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 1:45 AM	311.00	4.10	28.60	30.60	2.00	28.80	30.60	30.40	28.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 2:00 AM	308.00	3.20	28.50	30.70	2.20	28.80	30.70	29.40	28.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 2:15 AM	322.00	3.40	27.40	28.80	1.40	27.80	28.80	28.40	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 2:30 AM	328.00	4.30	27.30	29.70	2.40	27.60	29.70	29.90	27.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 2:45 AM	324.00	4.30	28.10	30.30	2.20	28.70	30.30	30.10	28.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 3:00 AM	326.00	3.10	25.80	29.70	3.90	28.10	29.70	27.90	25.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 3:15 AM	323.00	2.60	24.60	27.40	2.80	0.00	27.40	26.50	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 3:30 AM	314.00	2.20	25.00	27.40	2.40	0.00	27.40	27.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 3:45 AM	300.00	1.80	24.70	28.00	3.30	0.00	28.00	28.20	24.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 4:00 AM	289.00	1.60	33.10	0.00	0.00	0.00	0.00	0.00	33.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 4:15 AM	286.00	2.30	25.90	29.50	3.60	26.50	29.50	29.20	25.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 4:30 AM	301.00	2.50	25.40	29.00	3.60	25.00	29.00	28.70	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 4:45 AM	302.00	2.80	26.40	26.60	0.20	28.40	26.60	25.30	26.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 5:00 AM	300.00	2.40	26.70	25.40	0.00	25.70	25.40	24.30	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 5:15 AM	298.00	2.80	25.50	25.10	0.00	0.00	25.10	23.50	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 5:30 AM	288.00	3.20	24.40	24.00	0.00	24.50	24.00	21.90	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 5:45 AM	293.00	2.50	23.50	23.20	0.00	24.30	23.20	21.70	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 6:00 AM	300.00	2.70	23.60	23.40	0.00	23.50	23.40	22.00	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 6:15 AM	305.00	2.70	23.20	23.80	0.60	23.10	23.80	22.30	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 6:30 AM	314.00	3.00	22.50	23.60	1.10	22.70	23.60	22.70	22.50	2.40	0.00	0.00	0.00	0.00	0.00	2.40		
2/15/14 6:45 AM	315.00	2.80	23.80	23.30	0.00	24.50	23.30	22.30	23.80	0.00	0.00	0.00	2.10	0.00	0.00	0.00		
2/15/14 7:00 AM	310.00	3.00	24.90	30.20	5.30	24.30	30.20	23.90	24.90	1.90	0.00	1.90	0.00	1.90	0.00	0.00		
2/15/14 7:15 AM	213.00	1.10	27.00	23.40	0.00	23.40	27.00	27.00	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 7:30 AM	178.00	0.40	25.80	23.00	0.00	26.00	25.80	24.60	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 7:45 AM	225.00	1.00	26.80	23.90	0.00	23.90	26.80	26.80	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 8:00 AM	184.00	0.60	25.10	24.20	0.00	24.20	26.80	25.10	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 8:15 AM	280.00	2.50	23.20	24.60	1.40	24.00	24.60	25.50	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 8:30 AM	263.00	2.20	26.70	0.00	0.00	0.00	24.60	26.70	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 8:45 AM	245.00	0.90	25.50	0.00	0.00	0.00	25.40	25.50	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 9:00 AM	262.00	1.40	25.50	0.00	0.00	0.00	25.40	25.50	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 9:15 AM	264.00	3.30	22.20	23.90	1.70	23.90	24.20	22.20	24.00									



US Army Corps
of Engineers®

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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
2/15/14 5:30 PM	222.00	4.40	25.70	22.60	0.00	22.60	26.40	25.70	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 5:45 PM	187.00	5.00	24.00	23.10	0.00	23.10	28.70	24.00	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 6:00 PM	204.00	3.20	25.00	22.50	0.00	22.50	25.80	25.00	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 6:15 PM	214.00	3.90	25.00	22.30	0.00	22.30	26.10	25.00	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 6:30 PM	211.00	4.00	27.40	23.50	0.00	23.50	26.40	27.40	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 6:45 PM	215.00	4.90	26.90	24.40	0.00	24.40	25.90	26.90	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 7:00 PM	210.00	2.80	26.10	24.20	0.00	24.20	26.10	26.10	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 7:15 PM	211.00	4.10	27.00	24.40	0.00	24.40	26.50	27.00	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 7:30 PM	211.00	3.70	28.30	26.80	0.00	26.80	29.50	28.30	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 7:45 PM	195.00	4.30	30.50	28.60	0.00	28.60	29.90	30.50	27.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 8:00 PM	211.00	4.10	30.90	28.70	0.00	28.70	30.20	30.90	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 8:15 PM	193.00	1.80	30.80	29.20	0.00	29.20	30.50	30.80	27.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 8:30 PM	195.00	2.80	30.30	0.00	0.00	0.00	30.80	30.30	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 8:45 PM	190.00	4.20	30.10	28.90	0.00	28.90	30.10	30.10	26.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 9:00 PM	188.00	2.90	29.20	28.90	0.00	28.90	28.60	29.20	26.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 9:15 PM	190.00	3.30	27.80	27.70	0.00	27.70	27.90	27.80	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 9:30 PM	204.00	3.80	29.10	28.40	0.00	28.40	28.90	29.10	27.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 9:45 PM	181.00	3.00	33.90	30.70	0.00	30.70	31.60	33.90	26.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 10:00 PM	200.00	4.10	31.70	0.00	0.00	0.00	30.20	31.70	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 10:15 PM	200.00	3.90	31.90	28.20	0.00	28.20	29.90	31.90	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 10:30 PM	212.00	3.40	32.00	28.30	0.00	28.30	30.30	32.00	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 10:45 PM	200.00	3.20	30.10	29.10	0.00	29.10	31.30	30.10	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 11:00 PM	225.00	3.40	33.20	29.70	0.00	29.70	31.20	33.20	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 11:15 PM	196.00	3.90	32.20	28.90	0.00	28.90	30.20	32.20	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 11:30 PM	205.00	3.10	31.40	28.00	0.00	28.00	29.10	31.40	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/15/14 11:45 PM	186.00	4.30	30.60	28.00	0.00	28.00	28.10	30.60	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 12:00 AM	193.00	4.20	30.10	27.30	0.00	27.30	28.00	30.10	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 12:15 AM	195.00	3.10	29.60	27.40	0.00	27.40	28.10	29.60	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 12:30 AM	208.00	4.20	29.00	27.40	0.00	27.40	28.10	29.00	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 12:45 AM	217.00	5.50	27.80	26.30	0.00	26.30	27.60	27.80	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 1:00 AM	231.00	3.50	27.40	25.70	0.00	25.70	27.40	27.40	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 1:15 AM	213.00	2.70	27.20	25.60	0.00	25.60	27.00	27.20	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 1:30 AM	215.00	2.70	27.50	26.40	0.00	26.40	28.10	27.50	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 1:45 AM	226.00	2.90	28.40	26.60	0.00	26.60	28.40	28.40	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 2:00 AM	176.00	2.40	28.80	22.90	0.00	26.80	28.80	28.80	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 2:15 AM	199.00	1.80	29.60	28.60	0.00	28.60	29.80	29.60	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 2:30 AM	238.00	2.30	31.70	28.90	0.00	28.90	29.60	31.70	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 2:45 AM	219.00	3.10	30.90	29.00	0.00	29.00	29.10	30.90	24.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 3:00 AM	245.00	2.40	30.90	27.70	0.00	27.70	29.40	30.90	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 3:15 AM	227.00	2.80	29.60	27.80	0.00	27.80	28.50	29.60	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 3:30 AM	242.00	2.70	30.50	27.40	0.00	27.40	28.30	30.50	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 3:45 AM	253.00	2.40	30.80	27.80	0.00	27.80	28.60	30.80	25.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 4:00 AM	262.00	2.80	31.00	27.50	0.00	27.50	28.70	31.00	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 4:15 AM	261.00	2.00	30.90	27.10	0.00	27.10	28.90	30.90	25.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 4:30 AM	284.00	2.00	26.10	29.90	3.80	28.00	29.90	31.40	26.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 4:45 AM	286.00	2.00	27.30	29.90	2.60	28.60	29.90	31.30	27.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 5:00 AM	312.00	2.80	29.40	30.70	1.30	0.00	30.70	32.30	29.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 5:15 AM	305.00	3.40	31.00	34.70	3.70	32.70	34.70	35.50	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 5:30 AM	308.00	3.70	33.00	35.40	2.40	33.90	35.40	37.20	33.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 5:45 AM	328.00	4.00	34.50	35.60	1.10	34.80	35.60	39.10	34.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 6:00 AM	335.00	3.30	32.80	34.80	2.00	32.90	34.80	38.60	32.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 6:15 AM	335.00	4.40	31.70	33.10	1.40	31.80	33.10	36.70	31.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 6:30 AM	338.00	2.80	32.70	33.00	0.30	31.10	33.00	35.90	32.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 6:45 AM	321.00	4.80	33.50	33.50	0.00	31.50	33.50	36.70	33.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 7:00 AM	321.00	6.40	32.90	33.10	0.20	30.80	33.10	35.00	32.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 7:15 AM	329.00	4.00	32.60	32.40	0.00	30.30	32.40	34.60	32.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 7:30 AM	349.00	3.30	31.80	32.30	0.50	29.60	32.30	33.80	31.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 7:45 AM	350.00	4.30	32.70	32.30	0.00	30.20	32.30	33.80	32.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 8:00 AM	327.00	7.00	33.80	32.50	0.00	30.70	32.50	34.10	33.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 8:15 AM	334.00	4.50	34.50	34.60	0.10	32.00	34.60	35.80	34.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 8:30 AM	358.00	3.00	35.80	35.70	0.00	34.20	35.70	36.90	35.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 8:45 AM	336.00	5.20	35.30	35.60	0.30	0.00	35.60	36.90	35.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 9:00 AM	337.00	4.20	35.40	36.10	0.70	33.70	36.10	37.20	35.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 9:15 AM	334.00	3.90	33.50	35.60	2.10	32.50	35.60	36.50	33.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 9:30 AM	335.00	5.20	32.90	34.40	1.50	31.70	34.40	35.70	32.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 9:45 AM	326.00	3.60	33.10	34.20	1.10	32.10	34.20	36.00	33.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 10:00 AM	335.00	3.70	32.30	35.60	3.30	31.90	35.60	36.00	32.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 10:15 AM	333.00	5.30	30.40	34.30	3.90	31.90	34.30	35.30	30.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/16/14 10:30 AM	336.00	3.90	28.60	33.00	4.40	31.00</												



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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)								Naphthalene (µg/m³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
			2/17/14 8:00 PM	256.00	6.00	31.60	28.00	0.00	28.00	30.50	31.60	29.80	0.00	0.00	0.00	0.00	0.00	0.00
2/17/14 8:15 PM	276.00	7.30	26.80	28.50	1.70	25.60	28.50	30.10	26.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/17/14 8:30 PM	271.00	5.90	23.30	27.00	3.70	0.00	27.00	25.90	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/17/14 8:45 PM	279.00	6.30	23.10	24.70	1.60	0.00	24.70	25.90	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/17/14 9:00 PM	289.00	7.00	23.10	24.70	1.60	0.00	24.70	25.90	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/17/14 9:15 PM	289.00	5.00	25.30	26.00	0.70	0.00	26.00	25.90	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/17/14 9:30 PM	299.00	7.50	26.60	26.60	0.00	0.00	26.60	25.90	26.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/17/14 9:45 PM	292.00	6.40	31.00	30.30	0.00	0.00	30.30	25.90	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/17/14 10:00 PM	289.00	5.00	32.20	30.30	0.00	0.00	30.30	25.90	32.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/17/14 10:15 PM	300.00	5.50	36.60	34.80	0.00	0.00	34.80	25.90	36.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/17/14 10:30 PM	297.00	7.80	37.20	37.30	0.10	0.00	37.30	25.90	37.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/17/14 10:45 PM	299.00	5.50	39.50	41.40	1.90	0.00	41.40	25.90	39.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/17/14 11:00 PM	301.00	6.90	40.60	42.40	1.80	0.00	42.40	25.90	40.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/17/14 11:15 PM	292.00	9.10	43.30	42.80	0.00	0.00	42.80	25.90	43.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/17/14 11:30 PM	305.00	7.40	43.60	43.30	0.00	0.00	43.30	25.90	43.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/17/14 11:45 PM	304.00	8.20	46.50	44.90	0.00	0.00	44.90	25.90	46.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 12:00 AM	322.00	6.90	46.50	44.50	0.00	0.00	44.50	25.90	46.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 12:15 AM	322.00	4.60	40.50	40.70	0.20	0.00	40.70	25.90	40.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 12:30 AM	310.00	6.20	40.60	40.70	0.10	0.00	40.70	25.90	40.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 12:45 AM	322.00	6.50	39.10	37.60	0.00	0.00	37.60	25.90	39.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 1:00 AM	328.00	6.00	37.60	36.70	0.00	0.00	36.70	25.90	37.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 1:15 AM	324.00	3.90	37.50	35.40	0.00	0.00	35.40	25.90	37.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 1:30 AM	326.00	3.80	37.50	34.80	0.00	0.00	34.80	25.90	37.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 1:45 AM	298.00	4.90	37.30	34.80	0.00	0.00	34.80	25.90	37.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 2:00 AM	317.00	5.90	38.00	34.90	0.00	0.00	34.90	25.90	38.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 2:15 AM	317.00	6.90	38.30	33.50	0.00	0.00	33.50	25.90	38.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 2:30 AM	333.00	3.20	39.50	33.50	0.00	0.00	33.50	25.90	39.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 2:45 AM	321.00	4.60	39.90	32.70	0.00	0.00	32.70	25.90	39.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 3:00 AM	320.00	3.60	37.60	32.40	0.00	0.00	32.40	25.90	37.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 3:15 AM	305.00	4.00	36.70	32.90	0.00	0.00	32.90	25.90	36.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 3:30 AM	333.00	2.70	36.70	32.70	0.00	0.00	32.70	25.90	36.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 3:45 AM	307.00	3.80	35.80	32.60	0.00	0.00	32.60	25.90	35.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 4:00 AM	319.00	3.00	35.80	32.60	0.00	0.00	32.60	25.90	35.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 4:15 AM	325.00	5.60	35.50	32.40	0.00	0.00	32.40	25.90	35.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 4:30 AM	328.00	4.70	34.60	31.80	0.00	0.00	31.80	25.90	34.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 4:45 AM	335.00	2.40	33.30	31.10	0.00	0.00	31.10	25.90	33.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 5:00 AM	317.00	1.50	33.50	30.90	0.00	0.00	30.90	25.90	33.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 5:15 AM	302.00	2.10	35.10	31.60	0.00	0.00	31.60	25.90	35.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 5:30 AM	278.00	1.10	37.50	32.90	0.00	0.00	32.90	25.90	37.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 5:45 AM	248.00	1.30	25.90	0.00	0.00	0.00	32.70	25.90	37.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 6:00 AM	197.00	1.10	25.90	0.00	0.00	0.00	35.10	25.90	38.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 6:15 AM	135.00	2.00	39.40	40.60	1.20	0.00	39.40	25.90	40.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 6:30 AM	199.00	1.20	25.90	0.00	0.00	0.00	39.10	25.90	42.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 6:45 AM	197.00	2.00	25.90	0.00	0.00	0.00	39.10	25.90	41.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 7:00 AM	198.00	2.70	25.90	0.00	0.00	0.00	38.80	25.90	40.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 7:15 AM	193.00	2.10	25.90	0.00	0.00	0.00	33.40	25.90	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 7:30 AM	176.00	2.50	25.40	26.70	1.30	0.00	25.40	25.90	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 7:45 AM	198.00	3.30	25.90	0.00	0.00	0.00	25.20	25.90	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 8:00 AM	207.00	3.80	25.90	0.00	0.00	0.00	23.10	25.90	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 8:15 AM	213.00	3.60	25.90	0.00	0.00	0.00	20.20	25.90	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 8:30 AM	208.00	3.20	25.90	0.00	0.00	0.00	15.00	25.90	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 8:45 AM	206.00	4.30	25.90	0.00	0.00	0.00	15.00	25.90	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 9:00 AM	202.00	4.30	25.90	0.00	0.00	0.00	9.90	25.90	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 9:15 AM	177.00	4.40	9.90	9.00	0.00	0.00	9.90	25.90	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 9:30 AM	215.00	3.10	25.90	0.00	0.00	0.00	10.70	25.90	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 9:45 AM	181.00	3.30	25.90	0.00	0.00	0.00	10.10	25.90	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 10:00 AM	180.00	4.70	25.90	0.00	0.00	0.00	9.90	25.90	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 10:15 AM	189.00	3.50	25.90	0.00	0.00	0.00	9.90	25.90	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 10:30 AM	197.00	4.80	25.90	0.00	0.00	0.00	9.30	25.90	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 10:45 AM	188.00	4.20	25.90	0.00	0.00	0.00	8.90	25.90	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 11:00 AM	192.00	4.80	25.90	0.00	0.00	0.00	8.90	25.90	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 11:15 AM	186.00	5.40	25.90	0.00	0.00	0.00	10.40	25.90	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 11:30 AM	181.00	4.80	25.90	0.00	0.00	0.00	7.20	25.90	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 11:45 AM	202.00	7.30	25.90	0.00	0.00	0.00	7.20	25.90	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 12:00 PM	178.00	5.00	6.50	5.00	0.00	0.00	6.50	25.90	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/18/14 12:15 PM	174.00	6.00	6.80	4.90														



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)								Naphthalene (µg/m³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
2/18/14 9:15 PM	225.00	5.30	3.90	6.70	2.80	6.70	6.30	3.90	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/18/14 9:30 PM	234.00	6.70	4.00	6.70	2.70	6.70	6.50	4.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/18/14 9:45 PM	238.00	7.10	4.00	6.60	2.60	6.60	6.40	4.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/18/14 10:00 PM	229.00	6.50	4.30	7.00	2.70	7.00	6.40	4.30	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/18/14 10:15 PM	212.00	6.10	4.60	7.00	2.40	7.00	6.50	4.60	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/18/14 10:30 PM	223.00	3.80	4.70	7.20	2.50	7.20	6.70	4.70	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/18/14 10:45 PM	235.00	4.60	5.20	7.60	2.40	7.60	7.20	5.20	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/18/14 11:00 PM	213.00	5.70	5.10	0.00	0.00	0.00	7.40	5.10	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/18/14 11:15 PM	241.00	5.70	5.70	8.00	2.30	8.00	7.70	5.70	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/18/14 11:30 PM	226.00	5.60	5.00	7.90	2.90	7.90	7.40	5.00	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/18/14 11:45 PM	243.00	5.90	5.30	7.70	2.40	7.70	7.40	5.30	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 12:00 AM	236.00	4.60	5.50	7.50	2.00	7.50	7.30	5.50	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 12:15 AM	223.00	2.80	5.40	7.60	2.20	7.60	7.40	5.40	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 12:30 AM	230.00	3.50	5.60	0.00	0.00	0.00	7.40	5.60	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 12:45 AM	251.00	3.90	6.30	7.70	1.40	7.70	7.80	6.30	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 1:00 AM	251.00	2.70	5.90	7.80	1.90	7.80	7.60	5.90	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 1:15 AM	233.00	3.00	5.90	8.00	2.10	8.00	7.70	5.90	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 1:30 AM	245.00	3.00	6.30	8.40	2.10	8.40	8.30	6.30	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 1:45 AM	261.00	3.00	7.00	8.80	1.80	8.80	8.30	7.00	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 2:00 AM	255.00	2.70	7.70	9.70	2.00	9.70	8.90	7.70	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 2:15 AM	256.00	2.00	9.10	10.70	1.60	10.70	9.40	9.10	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 2:30 AM	264.00	3.10	10.60	10.50	0.00	10.50	10.90	10.60	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 2:45 AM	259.00	3.70	11.50	11.10	0.00	11.10	10.90	11.50	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 3:00 AM	265.00	3.50	12.20	12.40	0.20	12.40	11.70	12.20	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 3:15 AM	270.00	2.60	8.60	11.70	3.10	12.20	11.70	12.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 3:30 AM	280.00	2.50	9.40	12.10	2.70	13.10	12.10	11.70	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 3:45 AM	286.00	5.10	11.60	12.70	1.10	16.00	12.70	13.40	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 4:00 AM	306.00	3.50	12.60	14.70	2.10	0.00	14.70	15.50	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 4:15 AM	276.00	4.00	12.10	14.20	2.10	14.70	14.20	14.80	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 4:30 AM	293.00	3.90	13.00	14.80	1.80	15.60	14.80	15.00	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 4:45 AM	303.00	3.60	14.20	15.60	1.40	16.70	15.60	16.30	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 5:00 AM	308.00	3.80	14.90	16.60	1.70	17.90	16.60	18.30	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 5:15 AM	301.00	3.50	15.20	16.70	1.50	18.10	16.70	18.50	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 5:30 AM	295.00	2.80	16.50	16.90	0.40	19.50	16.90	18.90	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 5:45 AM	280.00	3.10	17.10	17.20	0.10	0.00	17.20	19.20	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 6:00 AM	299.00	5.60	16.70	18.30	1.60	18.50	18.30	18.90	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 6:15 AM	303.00	5.70	16.60	18.10	1.50	19.40	18.10	19.30	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 6:30 AM	289.00	2.80	16.50	18.70	2.20	19.30	18.70	19.20	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 6:45 AM	287.00	4.50	16.80	18.90	2.10	19.90	18.90	19.80	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 7:00 AM	297.00	5.10	17.00	18.90	1.90	20.30	18.90	20.20	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 7:15 AM	284.00	7.10	16.20	18.80	2.60	19.50	18.80	19.70	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 7:30 AM	285.00	5.30	15.20	17.70	2.50	18.40	17.70	18.30	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 7:45 AM	310.00	3.60	15.00	17.40	2.40	17.70	17.40	17.30	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 8:00 AM	298.00	3.00	15.00	17.50	2.50	17.50	17.50	17.60	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 8:15 AM	301.00	2.20	14.80	18.30	3.50	17.70	18.30	18.70	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 8:30 AM	298.00	2.20	20.30	18.90	0.00	19.90	18.90	19.50	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 8:45 AM	281.00	3.60	16.10	19.10	3.00	18.80	19.10	18.80	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 9:00 AM	267.00	4.20	18.40	18.50	0.10	18.50	18.60	18.40	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 9:15 AM	289.00	4.10	20.30	19.40	0.00	23.80	19.40	17.90	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 9:30 AM	269.00	2.60	18.30	31.10	12.80	31.10	19.10	18.30	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 9:45 AM	280.00	3.80	30.00	19.10	0.00	20.40	19.10	18.60	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 10:00 AM	296.00	2.60	29.80	18.90	0.00	20.40	18.90	18.50	29.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 10:15 AM	292.00	3.20	21.90	19.10	0.00	24.80	19.10	18.90	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 10:30 AM	320.00	2.30	22.10	20.10	0.00	27.60	20.10	19.90	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 10:45 AM	314.00	2.60	21.90	20.60	0.00	32.00	20.60	19.60	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 11:00 AM	279.00	3.00	23.70	21.20	0.00	25.90	21.20	20.00	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 11:15 AM	260.00	4.80	19.20	22.10	2.90	22.10	20.10	19.20	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 11:30 AM	272.00	4.10	21.20	20.20	0.00	21.00	20.20	18.40	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 11:45 AM	259.00	3.20	18.50	20.90	2.40	20.90	19.80	18.50	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 12:00 PM	267.00	4.20	17.20	20.30	3.10	20.30	18.60	17.20	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 12:15 PM	212.00	3.70	16.10	0.00	0.00	0.00	17.70	16.10	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 12:30 PM	235.00	3.70	17.90	20.00	2.10	20.00	18.50	17.90	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 12:45 PM	231.00	3.40	17.90	20.10	2.20	20.10	18.70	17.90	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 1:00 PM	261.00	3.50	17.10	19.60	2.50	19.60	18.20	17.10	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 1:15 PM	234.00	4.90	16.30	18.90	2.60	18.90	17.20	16.30	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 1:30 PM	243.00	5.70	15.10	18.00	2.90	18.00	16.00	15.10	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 1:45 PM	262.00	3.20	14.40	16.30	1.90	16.30	15.90	14.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 2:00 PM	253.00	4.80	14.10	16.40	2.30	16.40	15.90	14.10	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 2:15 PM	238.00	3.50	11.10	13.80	2.70	13.80	14.10	11.10	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/19/14 2:30 PM	253.00	3.																



**US Army Corps
of Engineers®**

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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
2/19/14 10:30 PM	204.00	2.60	41.90	36.50	0.00	36.50	35.70	41.90	29.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/19/14 10:45 PM	156.00	2.40	37.20	30.60	0.00	37.30	37.20	46.30	30.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/19/14 11:00 PM	169.00	2.60	38.20	30.20	0.00	39.60	38.20	43.90	30.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/19/14 11:15 PM	178.00	2.70	37.90	29.80	0.00	38.70	37.90	42.90	29.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/19/14 11:30 PM	154.00	3.00	40.20	29.00	0.00	45.30	40.20	42.60	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/19/14 11:45 PM	191.00	3.10	45.70	44.40	0.00	44.40	47.90	45.70	33.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 12:00 AM	169.00	3.10	43.70	32.20	0.00	45.80	43.70	44.40	32.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 12:15 AM	159.00	3.70	40.70	33.30	0.00	44.20	40.70	44.80	33.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 12:30 AM	155.00	3.30	46.50	36.80	0.00	40.30	46.50	45.10	36.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 12:45 AM	153.00	2.40	38.70	31.60	0.00	0.00	38.70	46.90	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 1:00 AM	152.00	3.60	0.00	29.60	0.00	37.30	0.00	44.50	29.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 1:15 AM	155.00	3.80	35.40	29.00	0.00	33.60	35.40	39.40	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 1:30 AM	174.00	1.80	35.40	28.30	0.00	32.90	35.40	40.90	28.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 1:45 AM	152.00	2.20	34.70	27.20	0.00	35.50	34.70	39.80	27.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 2:00 AM	149.00	2.40	37.80	27.40	0.00	35.70	37.80	46.90	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 2:15 AM	149.00	2.20	37.00	29.10	0.00	35.90	37.00	39.00	29.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 2:30 AM	126.00	2.20	37.30	30.20	0.00	36.00	37.30	39.20	30.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 2:45 AM	139.00	2.00	37.20	29.60	0.00	37.00	37.20	41.20	29.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 3:00 AM	97.00	2.20	45.40	32.60	0.00	0.00	45.40	41.90	32.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 3:15 AM	93.00	4.10	45.50	34.50	0.00	40.90	45.50	49.50	34.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 3:30 AM	170.00	2.70	40.10	36.10	0.00	40.10	40.10	46.80	36.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 3:45 AM	149.00	4.20	39.90	33.30	0.00	40.70	39.90	43.00	33.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 4:00 AM	105.00	3.10	42.60	34.70	0.00	42.70	42.60	43.70	34.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 4:15 AM	121.00	2.30	47.30	38.30	0.00	41.70	47.30	48.10	38.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 4:30 AM	152.00	3.30	39.30	33.60	0.00	39.70	39.30	40.50	33.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 4:45 AM	152.00	3.50	44.20	34.50	0.00	41.30	44.20	41.60	34.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 5:00 AM	117.00	4.20	40.70	34.40	0.00	40.20	40.70	40.60	34.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 5:15 AM	89.00	1.60	35.20	37.40	2.20	35.20	35.50	37.40	32.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 5:30 AM	130.00	5.00	29.90	29.80	0.00	35.70	29.90	30.50	29.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 5:45 AM	173.00	1.80	29.00	24.80	0.00	28.90	29.00	28.10	24.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 6:00 AM	75.00	4.20	30.10	29.20	0.00	30.10	29.00	29.20	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 6:15 AM	96.00	4.80	32.40	38.50	6.10	36.20	32.40	29.60	38.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 6:30 AM	145.00	2.70	32.40	38.50	6.10	31.20	32.40	29.60	38.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 6:45 AM	55.00	1.60	33.00	29.60	0.00	33.00	34.20	29.60	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 7:00 AM	53.00	1.70	33.00	29.60	0.00	33.00	44.90	29.60	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 7:15 AM	89.00	5.40	33.00	29.60	0.00	33.00	44.90	29.60	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 7:30 AM	86.00	2.90	33.40	29.60	0.00	33.40	33.10	29.60	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 7:45 AM	89.00	6.00	33.40	29.60	0.00	33.40	33.10	29.60	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 8:00 AM	92.00	4.10	35.70	23.40	0.00	33.40	35.70	29.60	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 8:15 AM	108.00	5.60	35.70	21.00	0.00	38.90	35.70	29.60	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 8:30 AM	89.00	4.00	38.90	29.60	0.00	38.90	35.70	29.60	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 8:45 AM	134.00	6.20	35.70	22.00	0.00	49.70	35.70	29.60	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 9:00 AM	132.00	3.70	63.80	22.20	0.00	49.00	63.80	29.60	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 9:15 AM	129.00	5.50	63.80	22.20	0.00	49.00	63.80	29.60	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 9:30 AM	134.00	5.40	63.80	20.30	0.00	40.20	63.80	29.60	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 9:45 AM	128.00	4.90	63.80	20.30	0.00	40.20	63.80	29.60	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 10:00 AM	152.00	6.20	63.80	20.30	0.00	40.20	63.80	29.60	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 10:15 AM	133.00	5.70	63.80	20.30	0.00	40.20	63.80	29.60	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 10:30 AM	154.00	5.90	63.80	20.30	0.00	40.20	63.80	29.60	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 10:45 AM	160.00	6.30	63.80	20.30	0.00	40.20	63.80	29.60	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 11:00 AM	155.00	6.30	63.80	17.00	0.00	40.20	63.80	29.60	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 11:15 AM	154.00	5.60	63.80	16.40	0.00	40.20	63.80	37.20	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 11:30 AM	165.00	5.30	50.10	15.90	0.00	33.90	50.10	37.20	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 11:45 AM	166.00	5.10	50.10	15.40	0.00	33.90	50.10	47.30	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 12:00 PM	162.00	6.20	50.10	15.40	0.00	33.90	50.10	47.30	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 12:15 PM	170.00	5.30	53.60	15.90	0.00	33.90	53.60	47.30	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 12:30 PM	165.00	5.10	41.60	16.00	0.00	33.90	41.60	45.50	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 12:45 PM	157.00	5.10	42.50	16.00	0.00	45.80	42.50	45.50	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 1:00 PM	139.00	4.10	44.30	16.00	0.00	42.90	44.30	47.30	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 1:15 PM	127.00	1.50	44.30	18.90	0.00	42.90	44.30	47.30	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 1:30 PM	150.00	1.80	44.30	19.80	0.00	42.90	44.30	47.90	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 1:45 PM	144.00	2.50	68.10	19.70	0.00	42.90	68.10	59.90	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 2:00 PM	126.00	3.10	68.10	20.20	0.00	45.90	68.10	59.90	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 2:15 PM	125.00	2.40	68.10	19.80	0.00	45.90	68.10	41.50	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 2:30 PM	118.00	1.60	68.10	19.80	0.00	45.90	68.10	42.20	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 2:45 PM	70.00	3.00	45.60	49.10	3.50	45.60	68.10	49.10	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 3:00 PM	63.00	3.00	42.80	46.70	3.90	42.80	41.00	46.70	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 3:15 PM	139.00	3.90	41.00	18.50	0.00	42.80	41.00	46.70	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/14 3:30 PM	83.00	2.60	42.80	28.20	0.00	42.80										



US Army Corps
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Indiana Harbor and Canal
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Real-Time Air Monitoring Data
February 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
2/20/14 11:45 PM	257.00	9.80	16.90	15.00	0.00	15.00	17.30	16.90	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 12:00 AM	258.00	10.20	17.20	15.00	0.00	15.00	17.30	17.20	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 12:15 AM	274.00	11.90	6.60	17.30	10.70	15.00	17.30	17.20	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 12:30 AM	261.00	12.30	17.20	15.00	0.00	15.00	17.30	17.20	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 12:45 AM	254.00	10.90	17.20	15.00	0.00	15.00	17.30	17.20	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 1:00 AM	275.00	10.80	6.60	17.30	10.70	15.00	17.30	17.20	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 1:15 AM	238.00	9.00	17.20	15.00	0.00	15.00	17.30	17.20	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 1:30 AM	243.00	7.20	18.50	15.00	0.00	15.00	17.30	18.50	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 1:45 AM	219.00	10.00	18.50	15.00	0.00	15.00	17.30	18.50	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 2:00 AM	249.00	8.40	18.50	15.00	0.00	15.00	17.30	18.50	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 2:15 AM	235.00	9.10	18.50	15.00	0.00	15.00	17.30	18.50	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 2:30 AM	230.00	7.50	18.50	15.00	0.00	15.00	17.30	18.50	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 2:45 AM	238.00	10.50	18.50	17.10	0.00	17.10	17.30	18.50	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 3:00 AM	242.00	14.00	18.50	18.80	0.30	18.80	17.30	18.50	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 3:15 AM	239.00	12.00	18.50	18.80	0.30	18.80	17.30	18.50	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 3:30 AM	223.00	9.70	18.50	19.00	0.50	19.00	17.30	18.50	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 3:45 AM	245.00	10.80	18.50	19.00	0.50	19.00	17.30	18.50	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 4:00 AM	235.00	9.70	18.50	20.10	1.60	20.10	17.30	18.50	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 4:15 AM	243.00	9.20	18.50	20.10	1.60	20.10	17.30	18.50	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 4:30 AM	233.00	11.40	18.50	19.20	0.70	19.20	21.50	18.50	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 4:45 AM	243.00	8.60	18.50	19.40	0.90	19.40	21.50	18.50	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 5:00 AM	241.00	7.30	28.60	19.50	0.00	19.50	21.80	28.60	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 5:15 AM	245.00	10.60	28.60	20.40	0.00	20.40	21.80	28.60	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 5:30 AM	236.00	9.30	28.60	20.40	0.00	20.40	21.80	28.60	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 5:45 AM	257.00	10.20	28.60	20.10	0.00	20.10	21.80	28.60	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 6:00 AM	268.00	9.10	28.60	20.10	0.00	20.10	21.80	28.60	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 6:15 AM	251.00	10.60	28.60	18.40	0.00	18.40	23.80	28.60	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 6:30 AM	236.00	9.50	28.60	18.40	0.00	18.40	21.80	28.60	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 6:45 AM	250.00	7.80	27.90	18.40	0.00	18.40	21.80	27.90	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 7:00 AM	262.00	8.00	26.60	18.40	0.00	18.40	21.80	26.60	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 7:15 AM	256.00	6.20	25.10	18.90	0.00	18.90	21.80	25.10	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 7:30 AM	257.00	13.00	25.10	18.90	0.00	18.90	21.80	25.10	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 7:45 AM	239.00	9.80	26.20	19.60	0.00	19.60	21.80	26.20	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 8:00 AM	251.00	11.90	26.20	19.80	0.00	19.80	28.90	26.20	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 8:15 AM	250.00	12.80	26.20	19.80	0.00	19.80	28.90	26.20	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 8:30 AM	255.00	11.90	26.20	19.80	0.00	19.80	28.90	26.20	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 8:45 AM	267.00	8.60	26.20	19.80	0.00	19.80	28.90	26.20	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 9:00 AM	264.00	12.80	26.20	19.80	0.00	19.80	31.40	26.20	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 9:15 AM	257.00	11.50	26.20	23.10	0.00	23.10	27.40	26.20	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 9:30 AM	282.00	14.20	5.10	35.70	30.60	23.10	35.70	33.50	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 9:45 AM	253.00	12.70	37.80	23.10	0.00	23.10	37.10	37.80	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 10:00 AM	243.00	6.80	36.10	24.30	0.00	24.30	30.70	36.10	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 10:15 AM	253.00	11.20	32.20	24.30	0.00	24.30	30.70	32.20	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 10:30 AM	255.00	11.10	38.50	25.30	0.00	25.30	32.00	38.50	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 10:45 AM	260.00	10.10	59.00	22.60	0.00	22.60	49.80	59.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 11:00 AM	255.00	14.50	68.60	27.40	0.00	27.40	57.50	68.60	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 11:15 AM	258.00	11.60	188.40	25.60	0.00	25.60	211.20	188.40	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 11:30 AM	278.00	10.40	4.70	138.40	133.70	35.40	138.40	188.40	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 11:45 AM	236.00	10.40	188.40	30.10	0.00	30.10	138.40	188.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 12:00 PM	266.00	14.70	194.30	28.20	0.00	28.20	150.70	194.30	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 12:15 PM	246.00	10.80	194.30	28.20	0.00	28.20	150.70	194.30	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 12:30 PM	247.00	10.60	143.40	23.30	0.00	23.30	86.30	143.40	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 12:45 PM	259.00	12.30	92.10	19.50	0.00	19.50	55.50	92.10	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 1:00 PM	244.00	8.60	49.40	17.80	0.00	17.80	65.50	49.40	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 1:15 PM	271.00	16.50	4.80	67.00	62.20	17.80	67.00	45.50	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 1:30 PM	255.00	13.90	45.50	17.80	0.00	17.80	67.00	45.50	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 1:45 PM	242.00	12.10	15.90	13.90	0.00	13.90	66.60	15.90	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 2:00 PM	256.00	13.20	5.10	7.20	2.10	7.20	25.90	5.10	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 2:15 PM	267.00	13.80	4.60	7.20	2.60	7.20	24.80	4.60	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 2:30 PM	292.00	12.90	3.40	24.00	20.60	7.20	24.00	4.40	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 2:45 PM	237.00	12.40	4.40	7.20	2.80	7.20	24.40	4.40	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 3:00 PM	277.00	11.30	3.40	18.10	14.70	7.20	18.10	3.60	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 3:15 PM	258.00	9.20	3.60	7.20	3.60	7.20	16.80	3.60	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 3:30 PM	261.00	12.00	3.40	7.20	3.80	7.20	16.80	3.40	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 3:45 PM	257.00	14.10	3.40	7.20	3.80	7.20	16.80	3.40	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 4:00 PM	255.00	12.60	3.40	7.20	3.80	7.20	17.50	3.40	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 4:15 PM	266.00	10.30	3.40	7.20	3.80	7.20	17.50	3.40	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 4:30 PM	249.00	8.70	3.40	7.20	3.80	7.20	17.50	3.40	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/21/14 4:45 PM	264.00	12.80	3.70	7.20	3.50	7.20	17.50	3.70	3.40	0.00								



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
2/22/14 1:00 AM	284.00	5.00	8.60	9.20	0.60	7.20	9.20	5.50	8.60	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 1:15 AM	277.00	4.00	8.30	8.30	0.00	7.20	8.30	5.00	8.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 1:30 AM	289.00	4.60	8.40	8.50	0.10	7.20	8.50	5.30	8.40	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 1:45 AM	270.00	3.40	9.30	9.70	0.40	7.20	9.70	6.20	9.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 2:00 AM	279.00	3.60	9.60	9.00	0.00	7.20	9.00	6.00	9.60	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 2:15 AM	266.00	5.50	5.60	7.20	1.60	7.20	7.80	5.60	8.90	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 2:30 AM	281.00	4.10	8.10	7.10	0.00	7.20	7.10	4.80	8.10	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 2:45 AM	251.00	5.20	4.20	7.20	3.00	7.20	6.30	4.20	7.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 3:00 AM	269.00	6.10	3.20	7.20	4.00	7.20	6.20	3.20	6.60	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 3:15 AM	257.00	4.00	3.20	7.20	4.00	7.20	6.10	3.20	6.40	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 3:30 AM	261.00	4.20	3.50	7.20	3.70	7.20	6.50	3.50	6.50	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 3:45 AM	270.00	5.90	6.40	6.70	0.30	7.20	6.70	3.70	6.40	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 4:00 AM	259.00	5.20	3.70	7.20	3.50	7.20	7.60	3.70	7.50	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 4:15 AM	270.00	4.20	8.30	8.30	0.00	7.20	8.30	3.70	8.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 4:30 AM	276.00	6.80	8.00	8.20	0.20	7.20	8.20	4.80	8.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 4:45 AM	264.00	6.10	3.70	7.20	3.50	7.20	7.90	3.70	7.70	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 5:00 AM	265.00	4.50	3.90	7.20	3.30	7.20	7.50	3.90	7.40	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 5:15 AM	257.00	5.40	4.10	7.20	3.10	7.20	7.40	4.10	7.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 5:30 AM	267.00	6.00	3.80	0.00	0.00	0.00	6.90	3.80	7.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 5:45 AM	272.00	4.10	7.00	7.60	0.60	7.20	7.60	3.90	7.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 6:00 AM	276.00	4.20	6.80	7.50	0.70	7.20	7.50	4.20	6.80	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 6:15 AM	275.00	6.00	6.70	7.30	0.60	7.20	7.30	3.70	6.70	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 6:30 AM	272.00	7.40	6.30	6.90	0.60	7.20	6.90	3.50	6.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 6:45 AM	259.00	5.70	4.20	7.20	3.00	7.20	7.70	4.20	6.50	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 7:00 AM	257.00	4.10	3.90	7.20	3.30	7.20	7.40	3.90	6.50	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 7:15 AM	256.00	4.40	4.40	7.20	2.80	7.20	7.80	4.40	6.50	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 7:30 AM	257.00	4.50	6.20	7.20	1.00	7.20	2.00	6.20	5.50	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 7:45 AM	253.00	4.40	6.70	7.20	0.50	7.20	2.10	6.70	5.50	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 8:00 AM	251.00	5.40	7.10	7.20	0.10	7.20	2.10	7.10	5.80	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 8:15 AM	280.00	5.10	5.30	2.10	0.00	7.20	2.10	6.60	5.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 8:30 AM	282.00	5.10	5.00	2.00	0.00	7.20	2.00	6.30	5.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 8:45 AM	267.00	4.40	6.10	7.20	1.10	7.20	2.00	6.10	4.70	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 9:00 AM	278.00	4.70	4.80	2.00	0.00	7.20	2.00	5.50	4.80	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 9:15 AM	268.00	4.60	5.30	7.20	1.90	7.20	1.90	5.30	4.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 9:30 AM	283.00	3.90	4.60	1.90	0.00	7.20	1.90	5.10	4.60	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 9:45 AM	257.00	5.10	5.40	7.20	1.80	7.20	1.90	5.40	4.80	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 10:00 AM	286.00	5.00	4.70	1.90	0.00	7.20	1.90	5.10	4.70	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 10:15 AM	258.00	6.00	5.10	7.20	2.10	7.20	1.90	5.10	4.50	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 10:30 AM	262.00	4.90	5.10	0.00	0.00	0.00	1.90	5.10	4.40	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 10:45 AM	263.00	5.40	5.10	7.20	2.10	7.20	1.90	5.10	4.40	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 11:00 AM	257.00	3.90	4.70	7.20	2.50	7.20	1.90	4.70	4.40	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 11:30 AM	259.00	5.20	5.00	7.20	2.20	7.20	1.90	5.00	5.40	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 11:45 AM	249.00	7.20	5.20	7.20	2.00	7.20	1.80	5.20	5.60	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 12:00 PM	280.00	3.90	5.00	1.70	0.00	7.20	1.70	4.90	5.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 12:15 PM	277.00	4.80	5.10	1.60	0.00	7.20	1.60	4.40	5.10	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 12:30 PM	301.00	3.80	5.80	1.70	0.00	7.20	1.70	4.90	5.80	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 12:45 PM	273.00	3.40	5.80	1.70	0.00	7.20	1.70	4.60	5.80	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 1:00 PM	286.00	3.20	7.90	1.60	0.00	7.20	1.60	4.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 1:15 PM	275.00	4.20	5.80	1.70	0.00	7.20	1.70	4.70	5.80	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 1:30 PM	281.00	4.90	6.00	1.70	0.00	7.20	1.70	4.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 1:45 PM	242.00	4.50	5.00	7.20	2.20	7.20	1.80	5.00	6.20	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 2:00 PM	270.00	3.70	6.50	1.70	0.00	7.20	1.70	4.70	6.50	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 2:15 PM	254.00	5.20	4.60	7.20	2.60	7.20	1.70	4.60	6.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 2:30 PM	265.00	5.40	4.60	7.20	2.60	7.20	1.80	4.60	6.10	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 2:45 PM	241.00	7.30	5.10	7.20	2.10	7.20	2.30	5.10	6.70	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 3:00 PM	260.00	4.30	4.40	7.20	2.80	7.20	2.40	4.40	6.20	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 3:15 PM	249.00	4.50	6.30	7.20	0.90	7.20	2.80	6.30	7.10	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 3:30 PM	258.00	5.90	6.50	7.20	0.70	7.20	3.40	6.50	7.90	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 3:45 PM	267.00	4.20	6.70	7.20	0.50	7.20	3.70	6.70	7.80	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 4:00 PM	254.00	5.00	7.10	7.20	0.10	7.20	4.00	7.10	7.90	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 4:15 PM	262.00	3.80	6.20	7.20	1.00	7.20	0.00	6.20	7.70	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 4:30 PM	254.00	4.40	5.10	7.20	2.10	7.20	3.80	5.10	7.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 4:45 PM	270.00	4.10	7.10	4.10	0.00	7.20	4.10	5.50	7.10	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 5:00 PM	257.00	4.60	5.20	7.20	2.00	7.20	4.10	5.20	7.40	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 5:15 PM	273.00	3.70	7.70	4.20	0.00	7.20	4.20	5.40	7.70	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 5:30 PM	269.00	3.30	5.20	7.20	2.00	7.20	3.90	5.20	7.80	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 5:45 PM	259.00	3.80	5.50	7.20	1.70	7.20	4.30	5.50	7.90	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 6:00 PM	254.00	3.60	5.60	7.20	1.60	7.20	4.70	5.60	7.50	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 6:15 PM	252.00	3.10	6.00	7.20	1.20	7.20	4.30	6.00	7.50	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 6:30 PM	238.00	3.40	6.50	7.20	0.70	7.20	3.90	6.50	9.10	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 6:45 PM	253.00	3.80	8.30	7.20	0.00	7.20	4.30	8.30	9.50	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 7:00 PM	274.00	2.80	9.40	4.60	0.00	7.20	4.60	8.10	9.40	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 7:15 PM	266.00	3.30	8.40	7.20	0.00	7.20	5.20	8.40	9.60	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 7:30 PM	269.00	3.00	9.00	7.20	0.00	7.20	5.50	9.00	10.30	0.00	0.00	0.00	0.00	0.00	0.00	
2/22/14 7:45 PM	276.00	2.70	10.50	5.70	0.00	7.20	5.70	9.00	10.50	0.00	0.00	0.00				



US Army Corps
of Engineers®

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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
2/24/14 3:45 AM	309.00	3.10	5.80	7.50	1.70	7.20	7.50	8.50	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 4:00 AM	290.00	3.20	5.70	7.80	2.10	0.00	7.80	8.10	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 4:15 AM	296.00	3.40	5.70	7.60	1.90	7.20	7.60	8.20	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 4:30 AM	291.00	3.50	5.70	7.30	1.60	7.20	7.30	8.30	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 4:45 AM	281.00	2.60	5.90	7.80	1.90	7.20	7.80	8.50	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 5:00 AM	292.00	4.00	5.80	7.50	1.70	7.20	7.50	8.30	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 5:15 AM	280.00	5.00	6.00	8.10	2.10	7.20	8.10	9.90	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 5:30 AM	289.00	2.60	5.80	8.00	2.20	7.20	8.00	10.10	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 5:45 AM	293.00	3.60	6.10	8.10	2.00	7.20	8.10	9.60	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 6:00 AM	277.00	4.70	6.40	7.90	1.50	7.20	7.90	9.30	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 6:15 AM	296.00	5.60	6.30	7.90	1.60	0.00	7.90	9.70	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 6:30 AM	277.00	4.00	6.30	8.30	2.00	7.20	8.30	10.10	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 6:45 AM	285.00	5.10	6.30	8.50	2.20	7.20	8.50	9.90	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 7:00 AM	296.00	4.70	6.70	7.80	1.10	7.20	7.80	9.90	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 7:15 AM	302.00	3.20	6.90	7.90	1.00	7.20	7.90	9.80	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 7:30 AM	277.00	6.50	7.20	7.90	0.70	7.20	7.90	9.30	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 7:45 AM	274.00	3.60	7.00	7.80	0.80	7.20	7.80	10.20	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 8:00 AM	299.00	3.70	7.50	7.80	0.30	7.20	7.80	10.50	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 8:15 AM	306.00	4.30	7.00	7.60	0.60	7.20	7.60	9.70	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 8:30 AM	297.00	5.90	7.10	7.60	0.50	7.20	7.60	10.00	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 8:45 AM	309.00	6.90	7.40	7.60	0.20	7.20	7.60	9.40	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 9:00 AM	296.00	3.40	8.20	7.70	0.00	7.20	7.70	9.50	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 9:15 AM	305.00	5.00	7.80	7.40	0.00	7.20	7.40	8.10	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 9:30 AM	321.00	5.30	8.50	7.20	0.00	7.20	7.20	7.70	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 9:45 AM	322.00	5.70	8.10	7.70	0.00	7.20	7.70	8.30	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 10:00 AM	328.00	4.90	8.30	7.70	0.00	7.20	7.70	8.00	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 10:15 AM	310.00	4.70	7.90	7.00	0.00	7.20	7.00	7.70	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 10:30 AM	317.00	5.10	7.90	8.10	0.20	7.20	8.10	7.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 10:45 AM	320.00	4.00	9.00	7.10	0.00	7.20	7.10	8.20	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 11:00 AM	299.00	6.50	8.80	7.10	0.00	7.20	7.10	8.10	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 11:15 AM	319.00	3.50	7.40	6.80	0.00	7.20	6.80	6.90	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 11:30 AM	334.00	4.50	11.40	6.70	0.00	7.20	6.70	6.80	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 11:45 AM	287.00	3.20	9.10	6.70	0.00	7.20	6.70	6.50	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 12:00 PM	302.00	6.00	8.10	6.70	0.00	7.20	6.70	5.90	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 12:15 PM	300.00	6.30	8.80	6.20	0.00	7.20	6.20	5.70	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 12:30 PM	313.00	5.40	8.70	5.60	0.00	7.20	5.60	5.60	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 12:45 PM	288.00	6.20	9.80	5.60	0.00	7.20	5.60	5.30	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 1:00 PM	292.00	5.20	9.40	5.70	0.00	7.20	5.70	5.90	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 1:15 PM	267.00	4.20	6.20	7.20	1.00	7.20	6.20	6.20	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 1:30 PM	281.00	6.50	10.30	5.70	0.00	7.20	5.70	5.80	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 1:45 PM	290.00	7.30	9.50	6.20	0.00	7.20	6.20	5.70	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 2:00 PM	249.00	5.10	7.70	7.20	0.00	7.20	6.40	7.70	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 2:15 PM	275.00	6.50	10.60	6.50	0.00	7.20	6.50	6.50	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 2:30 PM	296.00	6.40	10.40	6.50	0.00	7.20	6.50	9.70	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 2:45 PM	270.00	6.20	11.20	6.90	0.00	7.20	6.90	7.40	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 3:00 PM	278.00	5.70	11.10	6.90	0.00	7.20	6.90	7.40	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 3:15 PM	286.00	4.30	12.10	7.40	0.00	0.00	7.40	8.00	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 3:30 PM	253.00	6.90	9.10	7.20	0.00	7.20	7.70	9.10	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 3:45 PM	275.00	6.30	11.40	7.40	0.00	7.20	7.40	7.40	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 4:00 PM	264.00	5.30	7.70	7.20	0.00	7.20	8.10	7.70	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 4:15 PM	305.00	7.50	12.40	8.60	0.00	7.20	8.60	8.60	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 4:30 PM	301.00	5.80	13.50	8.50	0.00	7.20	8.50	7.80	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 4:45 PM	284.00	7.50	12.50	8.80	0.00	7.20	8.80	8.50	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 5:00 PM	256.00	7.00	8.30	7.20	0.00	7.20	8.60	8.30	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 5:15 PM	255.00	5.20	8.70	7.20	0.00	7.20	9.50	8.70	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 5:30 PM	281.00	5.80	12.10	9.50	0.00	7.20	9.50	8.90	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 5:45 PM	256.00	5.90	9.20	7.20	0.00	7.20	10.10	9.20	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 6:00 PM	265.00	6.30	9.00	7.20	0.00	7.20	10.30	9.00	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 6:15 PM	261.00	6.00	9.60	7.20	0.00	7.20	10.70	9.60	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 6:30 PM	278.00	4.30	13.90	11.30	0.00	7.20	11.30	10.00	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 6:45 PM	269.00	6.20	10.70	7.20	0.00	7.20	11.50	10.70	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 7:00 PM	300.00	4.10	14.00	11.30	0.00	7.20	11.30	10.70	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 7:15 PM	300.00	4.20	13.70	11.10	0.00	7.20	11.10	10.20	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 7:30 PM	275.00	3.80	13.40	10.70	0.00	7.20	10.70	9.30	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 7:45 PM	276.00	3.40	12.70	10.50	0.00	7.20	10.50	9.90	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 8:00 PM	275.00	2.90	13.20	11.10	0.00	7.20	11.10	12.30	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 8:15 PM	310.00	3.80	14.00	11.80	0.00	7.20	11.80	13.20	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 8:30 PM	309.00	4.00	12.60	11.40	0.00	7.20	11.40	13.20	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 8:45 PM	317.00	4.90	12.40	10.70	0.00	7.20	10.70	10.50	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 9:00 PM	290.00	5.80	12.50	10.60	0.00	7.20	10.60	11.10	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/14 9:15 PM	310.00	3.30	12.20													



**US Army Corps
of Engineers®**

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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
2/26/14 6:15 AM	322.00	5.20	15.20	16.00	0.80	21.30	16.00	15.00	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 6:30 AM	322.00	7.80	14.90	16.20	1.30	18.70	16.20	15.90	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 6:45 AM	304.00	6.60	15.00	16.60	1.60	19.30	16.60	15.30	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 7:00 AM	316.00	6.10	17.30	16.80	0.00	20.20	16.80	15.70	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 7:15 AM	303.00	5.50	18.10	0.00	0.00	22.80	0.00	16.80	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 7:30 AM	303.00	5.00	17.40	18.30	0.90	19.90	18.30	16.40	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 7:45 AM	315.00	5.80	17.90	18.40	0.50	20.20	18.40	16.80	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 8:00 AM	299.00	5.50	18.00	17.60	0.00	22.60	17.60	16.70	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 8:15 AM	300.00	4.20	18.50	17.40	0.00	20.00	17.40	17.70	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 8:30 AM	296.00	3.80	20.70	19.40	0.00	22.40	19.40	17.30	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 8:45 AM	266.00	4.90	29.10	25.00	0.00	25.00	24.30	29.10	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 9:00 AM	269.00	5.10	17.40	22.90	5.50	22.90	24.30	17.40	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 9:15 AM	263.00	4.20	15.80	19.20	3.40	19.20	17.40	15.80	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 9:30 AM	266.00	4.10	15.50	18.80	3.30	18.80	17.20	15.50	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 9:45 AM	266.00	4.50	16.50	18.70	2.20	18.70	18.20	16.50	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 10:00 AM	280.00	3.70	16.80	17.50	0.70	19.30	17.50	16.30	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 10:15 AM	259.00	4.00	14.90	18.00	3.10	18.00	16.40	14.90	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 10:30 AM	256.00	5.00	12.50	16.30	3.80	16.30	15.00	12.50	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 10:45 AM	234.00	4.90	12.30	0.00	0.00	0.00	14.60	12.30	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 11:00 AM	252.00	4.50	11.80	15.30	3.50	15.30	14.40	11.80	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 11:15 AM	242.00	4.40	11.80	15.80	4.00	15.80	14.10	11.80	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 11:30 AM	279.00	7.50	15.00	14.00	0.00	14.20	14.00	11.10	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 11:45 AM	239.00	4.90	11.30	15.70	4.40	15.70	13.50	11.30	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 12:00 PM	246.00	5.00	11.50	14.50	3.00	14.50	13.70	11.50	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 12:15 PM	267.00	6.30	12.10	16.10	4.00	16.10	14.60	12.10	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 12:30 PM	247.00	6.10	14.70	15.80	1.10	15.80	15.70	14.70	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 12:45 PM	230.00	6.30	14.70	20.10	5.40	20.10	15.60	14.70	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 1:00 PM	275.00	7.80	16.00	14.90	0.00	0.00	14.90	16.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 1:15 PM	257.00	8.30	13.50	14.40	0.90	14.40	14.10	13.50	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 1:30 PM	241.00	6.70	16.60	15.70	0.00	15.70	15.20	16.60	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 1:45 PM	260.00	5.10	16.30	0.00	0.00	0.00	15.90	16.30	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 2:00 PM	232.00	4.30	14.00	15.10	1.10	15.10	17.30	14.00	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 2:15 PM	244.00	5.80	13.10	12.10	0.00	12.10	16.30	13.10	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 2:30 PM	244.00	8.70	13.30	12.40	0.00	12.40	16.30	13.30	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 2:45 PM	245.00	9.40	12.60	12.00	0.00	12.00	16.20	12.60	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 3:00 PM	250.00	6.10	11.60	0.00	0.00	0.00	15.40	11.60	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 3:15 PM	242.00	6.90	11.20	12.90	1.70	12.90	14.70	11.20	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 3:30 PM	240.00	8.30	12.30	12.10	0.00	12.10	16.20	12.30	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 3:45 PM	251.00	6.80	11.30	14.20	2.90	14.20	14.40	11.30	38.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 4:00 PM	235.00	7.40	12.50	12.50	0.00	12.50	14.70	12.50	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 4:15 PM	225.00	7.70	12.90	19.50	6.60	19.50	15.50	12.90	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 4:30 PM	232.00	8.30	12.30	42.10	29.80	42.10	15.30	12.30	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 4:45 PM	233.00	5.50	13.90	28.20	14.30	28.20	15.10	13.90	33.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 5:00 PM	234.00	9.50	13.00	29.00	16.00	29.00	14.40	13.00	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 5:15 PM	240.00	10.70	16.30	39.50	23.20	39.50	14.40	16.30	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 5:30 PM	235.00	10.00	12.70	26.10	13.40	26.10	14.00	12.70	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 5:45 PM	241.00	10.80	13.20	35.60	22.40	35.60	14.60	13.20	45.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 6:00 PM	254.00	8.40	13.30	29.10	15.80	29.10	15.30	13.30	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 6:15 PM	251.00	7.80	13.60	24.50	10.90	24.50	16.30	13.60	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 6:30 PM	233.00	6.40	12.30	27.00	14.70	27.00	14.60	12.30	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 6:45 PM	239.00	7.30	11.70	16.60	4.90	16.60	13.40	11.70	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 7:00 PM	233.00	6.60	11.10	29.40	18.30	29.40	13.60	11.10	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 7:15 PM	246.00	7.40	11.00	20.70	9.70	20.70	13.50	11.00	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 7:30 PM	255.00	7.30	10.00	21.30	11.30	21.30	12.90	10.00	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 7:45 PM	231.00	6.20	11.20	47.60	36.40	47.60	12.90	11.20	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 8:00 PM	235.00	5.30	10.30	18.20	7.90	18.20	12.50	10.30	57.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 8:15 PM	239.00	7.30	9.50	17.00	7.50	17.00	12.20	9.50	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 8:30 PM	216.00	4.30	9.10	16.30	7.20	16.30	11.80	9.10	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 8:45 PM	217.00	5.30	9.80	30.20	20.40	30.20	11.70	9.80	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 9:00 PM	249.00	10.40	14.50	24.10	9.60	24.10	11.80	14.50	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 9:15 PM	246.00	5.20	10.80	17.00	6.20	17.00	12.80	10.80	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 9:30 PM	226.00	6.80	11.00	0.00	0.00	0.00	12.20	11.00	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 9:45 PM	235.00	6.30	11.40	22.30	10.90	22.30	12.40	11.40	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 10:00 PM	242.00	7.40	11.90	21.60	9.70	21.60	12.40	11.90	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 10:15 PM	231.00	5.50	11.30	18.30	7.00	18.30	12.20	11.30	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 10:30 PM	233.00	8.10	11.60	18.30	6.70	18.30	12.40	11.60	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 10:45 PM	237.00	7.10	11.00	18.30	7.30	18.30	12.00	11.00	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 11:00 PM	235.00	4.30	10.80	17.60	6.80	17.60	12.00	10.80	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2/26/14 11:15 PM	227.00	4.10	10.70	17.10	6													



US Army Corps of Engineers

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

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)								Naphthalene (µg/m³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
2/27/14 7:30 AM	357.00	7.10	27.30	41.60	14.30	23.90	41.60	26.00	27.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 7:45 AM	344.00	8.10	47.60	38.10	0.00	23.70	38.10	25.10	47.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 8:00 AM	335.00	9.60	31.60	41.80	10.20	23.20	41.80	25.90	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 8:15 AM	350.00	7.30	25.50	42.60	17.10	23.40	42.60	22.50	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 8:30 AM	357.00	8.00	25.90	38.30	12.40	21.60	38.30	22.50	25.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 8:45 AM	337.00	7.90	24.80	35.50	10.70	22.80	35.50	21.20	24.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 9:00 AM	330.00	5.40	31.60	71.50	39.90	0.00	71.50	26.70	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 9:15 AM	333.00	8.10	42.00	44.40	2.40	0.00	44.40	23.20	42.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 9:30 AM	336.00	8.40	24.20	39.30	15.10	22.00	39.30	21.10	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 9:45 AM	332.00	5.10	24.20	35.90	11.70	21.20	35.90	21.20	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 10:00 AM	348.00	7.40	25.10	35.70	10.60	18.40	35.70	21.50	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 10:15 AM	334.00	7.30	26.40	39.00	12.60	20.90	39.00	21.50	26.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 10:30 AM	338.00	5.90	23.80	41.90	18.10	45.90	41.90	15.00	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 10:45 AM	339.00	6.40	25.30	29.30	4.00	18.70	29.30	15.00	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 11:00 AM	331.00	6.10	23.70	30.00	6.30	0.00	30.00	15.00	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 11:15 AM	323.00	8.30	22.50	38.20	15.70	19.50	38.20	15.00	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 11:30 AM	352.00	5.20	20.90	54.60	33.70	20.10	54.60	15.00	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 11:45 AM	3.00	6.90	15.40	15.00	0.00	15.40	27.90	15.00	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 12:00 PM	322.00	4.80	21.60	27.60	6.00	15.70	27.60	15.00	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 12:15 PM	332.00	5.60	18.40	28.40	10.00	14.50	28.40	15.00	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 12:30 PM	7.00	5.50	15.00	15.00	0.00	15.00	28.90	15.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 12:45 PM	28.00	3.70	15.70	15.00	0.00	15.70	28.20	15.00	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 1:00 PM	350.00	3.90	19.50	27.20	7.70	15.20	27.20	15.00	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 1:15 PM	322.00	5.80	17.70	26.50	8.80	14.90	26.50	15.00	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 1:30 PM	338.00	3.60	18.10	24.70	6.60	14.90	24.70	15.00	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 1:45 PM	16.00	4.20	14.90	15.00	0.10	14.90	25.00	15.00	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 2:00 PM	9.00	5.10	14.60	15.00	0.40	14.60	24.50	15.00	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 2:15 PM	38.00	3.20	14.80	15.00	0.20	14.80	24.60	15.00	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 2:30 PM	341.00	4.00	18.40	24.60	6.20	15.20	24.60	15.00	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 2:45 PM	314.00	3.70	18.30	25.80	7.50	16.20	25.80	15.00	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 3:00 PM	318.00	2.80	17.30	23.10	5.80	14.80	23.10	15.00	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 3:15 PM	278.00	4.80	18.90	24.20	5.30	15.80	24.20	15.00	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 3:30 PM	325.00	2.20	17.90	22.80	4.90	15.50	22.80	15.00	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 3:45 PM	340.00	1.30	17.00	22.80	5.80	15.20	22.80	15.00	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 4:00 PM	39.00	3.00	15.30	15.00	0.00	15.30	22.60	15.00	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 4:15 PM	52.00	4.00	15.80	15.00	0.00	15.80	22.00	15.00	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 4:30 PM	342.00	2.30	17.20	21.60	4.40	14.60	21.60	15.00	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 4:45 PM	357.00	4.60	17.50	22.30	4.80	16.40	22.30	15.00	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 5:00 PM	19.00	3.10	14.20	15.00	0.80	14.20	22.00	15.00	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 5:15 PM	21.00	4.40	0.00	15.00	0.00	0.00	21.90	15.00	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 5:30 PM	3.00	2.80	15.00	15.00	0.00	15.00	21.70	15.00	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 5:45 PM	349.00	3.10	17.00	21.70	4.70	0.00	21.70	15.00	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 6:00 PM	39.00	3.10	15.00	15.00	0.00	15.00	22.00	15.00	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 6:15 PM	16.00	3.30	14.20	15.00	0.80	14.20	23.10	15.00	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 6:30 PM	336.00	2.20	18.00	23.20	5.20	13.80	23.20	15.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 6:45 PM	335.00	2.30	18.00	23.30	5.30	15.60	23.30	15.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 7:00 PM	339.00	1.60	18.00	22.10	4.10	14.90	22.10	15.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 7:15 PM	10.00	1.60	14.40	15.00	0.60	14.40	22.60	15.00	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 7:30 PM	357.00	1.60	17.90	23.00	5.10	14.40	23.00	15.00	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 7:45 PM	72.00	2.70	16.80	15.00	0.00	16.80	26.00	15.00	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 8:00 PM	75.00	0.10	16.70	15.00	0.00	16.70	23.20	15.00	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 8:15 PM	341.00	1.50	17.10	23.40	6.30	14.60	23.40	15.00	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 8:30 PM	319.00	1.40	17.20	21.90	4.70	15.20	21.90	15.00	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 8:45 PM	272.00	1.00	17.10	20.70	3.60	15.20	20.70	15.00	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 9:00 PM	221.00	1.30	15.00	15.20	0.20	15.20	20.70	15.00	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 9:15 PM	226.00	1.40	15.00	0.00	0.00	0.00	22.50	15.00	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 9:30 PM	226.00	1.50	15.00	19.70	4.70	19.70	24.40	15.00	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 9:45 PM	214.00	2.90	15.00	22.00	7.00	22.00	26.50	15.00	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 10:00 PM	199.00	3.20	15.00	22.60	7.60	22.60	25.80	15.00	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 10:15 PM	197.00	2.60	15.00	18.80	3.80	18.80	23.20	15.00	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 10:30 PM	233.00	2.40	15.00	0.00	0.00	0.00	24.00	15.00	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 10:45 PM	201.00	2.00	15.00	21.10	6.10	21.10	24.80	15.00	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 11:00 PM	217.00	1.00	15.00	19.40	4.40	19.40	24.50	15.00	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 11:15 PM	238.00	1.10	15.00	23.10	8.10	23.10	24.60	15.00	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 11:30 PM	216.00	1.50	15.00	22.10	7.10	22.10	25.50	15.00	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/27/14 11:45 PM	232.00	1.20	15.															



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Real-Time Air Monitoring Data
February 2014

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
2/28/14 8:45 AM	184.00	5.90	15.00	19.70	4.70	19.70	21.30	15.00	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 9:00 AM	168.00	5.40	17.60	16.40	0.00	17.90	17.60	15.00	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 9:15 AM	161.00	6.20	20.20	17.70	0.00	20.50	20.20	15.00	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 9:30 AM	177.00	4.90	19.50	86.50	67.00	18.50	19.50	15.00	86.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 9:45 AM	189.00	6.80	15.00	15.90	0.90	15.90	25.00	15.00	33.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 10:00 AM	188.00	7.50	15.00	20.00	5.00	20.00	16.10	15.00	54.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 10:15 AM	162.00	5.80	18.20	45.90	27.70	19.80	18.20	15.00	45.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 10:30 AM	191.00	6.70	15.00	18.70	3.70	18.70	18.50	15.00	51.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 10:45 AM	178.00	6.10	15.80	37.30	21.50	16.10	15.80	15.00	37.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 11:00 AM	170.00	6.20	16.00	25.70	9.70	15.40	16.00	15.00	25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 11:15 AM	205.00	5.00	15.00	15.70	0.70	15.70	15.40	15.00	51.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 11:30 AM	170.00	7.90	15.40	75.60	60.20	15.80	15.40	15.00	75.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 11:45 AM	180.00	5.30	15.00	19.30	4.30	19.30	16.80	15.00	33.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 12:00 PM	198.00	5.40	15.00	14.80	0.00	14.80	16.70	15.00	159.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 12:15 PM	165.00	5.90	16.60	62.80	46.20	0.00	16.60	15.00	62.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 12:30 PM	190.00	4.80	15.00	13.80	0.00	13.80	16.90	15.00	37.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 12:45 PM	160.00	5.60	17.50	35.60	18.10	15.00	17.50	15.00	35.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 1:00 PM	199.00	5.40	15.00	13.80	0.00	13.80	15.80	15.00	33.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 1:15 PM	162.00	7.00	17.00	34.70	17.70	13.10	17.00	15.00	34.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 1:30 PM	189.00	6.10	15.00	12.80	0.00	12.80	15.20	15.00	34.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 1:45 PM	176.00	7.30	14.60	55.80	41.20	12.30	14.60	15.00	55.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 2:00 PM	216.00	8.00	15.00	12.40	0.00	12.40	15.60	15.00	40.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 2:15 PM	201.00	6.70	15.00	12.80	0.00	12.80	17.40	15.00	51.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 2:45 PM	203.00	5.60	15.00	13.20	0.00	13.20	16.70	15.00	46.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 3:00 PM	176.00	6.80	17.40	36.20	18.80	14.60	17.40	15.00	36.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 3:15 PM	180.00	5.50	15.00	15.60	0.60	15.60	20.50	15.00	147.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 3:30 PM	197.00	6.00	15.00	16.40	1.40	16.40	19.10	15.00	55.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 3:45 PM	195.00	3.60	15.00	17.10	2.10	17.10	19.40	15.00	39.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 4:00 PM	178.00	6.30	22.00	43.10	21.10	18.00	22.00	15.00	43.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 4:15 PM	174.00	5.10	22.20	54.20	32.00	18.20	22.20	15.00	54.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 4:30 PM	176.00	5.60	27.10	47.80	20.70	18.90	27.10	15.00	47.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 4:45 PM	181.00	9.10	15.00	20.40	5.40	20.40	24.60	15.00	44.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 5:00 PM	174.00	8.30	24.10	44.00	19.90	19.00	24.10	15.00	44.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 5:15 PM	163.00	6.50	24.20	46.80	22.60	19.50	24.20	15.00	46.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 5:30 PM	190.00	7.60	15.00	19.50	4.50	19.50	24.60	15.00	41.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 5:45 PM	187.00	5.20	15.00	20.50	5.50	20.50	24.90	15.00	47.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 6:00 PM	176.00	5.50	24.80	41.90	17.10	19.50	24.80	15.00	41.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 6:15 PM	169.00	5.50	25.30	66.40	41.10	20.70	25.30	15.00	66.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 6:30 PM	176.00	6.80	25.80	42.70	16.90	21.80	25.80	15.00	42.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 6:45 PM	187.00	4.70	15.00	21.80	6.80	21.80	25.40	15.00	42.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 7:00 PM	172.00	4.00	26.60	41.70	15.10	22.80	26.60	15.00	41.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 7:15 PM	164.00	2.60	27.10	41.50	14.40	23.60	27.10	15.00	41.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 7:30 PM	186.00	4.50	15.00	23.60	8.60	23.60	27.10	15.00	41.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 7:45 PM	171.00	3.70	28.00	42.10	14.10	23.70	28.00	15.00	42.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 8:00 PM	184.00	4.40	15.00	24.90	9.90	24.90	27.60	15.00	41.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 8:15 PM	173.00	2.80	27.40	42.30	14.90	25.50	27.40	15.00	42.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 8:30 PM	173.00	4.00	27.10	42.80	15.70	25.80	27.10	15.00	42.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 8:45 PM	175.00	3.20	28.30	41.80	13.50	25.30	28.30	15.00	41.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 9:00 PM	198.00	5.10	15.00	24.40	9.40	24.40	26.70	15.00	39.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 9:15 PM	207.00	3.30	15.00	25.30	10.30	25.30	26.50	15.00	39.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 9:30 PM	212.00	3.20	15.00	24.00	9.00	24.00	26.00	15.00	39.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 9:45 PM	187.00	4.20	15.00	24.80	9.80	24.80	26.30	15.00	39.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 10:00 PM	195.00	3.70	15.00	24.60	9.60	24.60	26.30	15.00	40.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 10:15 PM	205.00	5.10	15.00	25.30	10.30	25.30	27.40	15.00	38.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 10:30 PM	182.00	4.00	15.00	23.40	8.40	23.40	25.70	15.00	39.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 10:45 PM	218.00	3.20	15.00	23.00	8.00	23.00	24.70	15.00	35.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 11:00 PM	231.00	2.50	15.00	24.10	9.10	24.10	25.10	15.00	35.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 11:15 PM	211.00	2.80	15.00	22.90	7.90	22.90	24.50	15.00	34.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 11:30 PM	205.00	3.70	15.00	22.30	7.30	22.30	24.30	15.00	34.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/14 11:45 PM	216.00	3.20	15.00	21.80	6.80	21.80	25.20	15.00	33.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00