





US Army Corps  
of Engineers®

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
January, 2013

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )							Naphthalene (µg/m <sup>3</sup> )						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
1/2/14 1:15 AM	90.00	8.10	53.10	69.70	16.60	15.30	53.10	104.10	69.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 1:30 AM	80.00	5.30	16.30	100.80	84.50	16.30	30.50	100.80	111.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 1:45 AM	57.00	6.20	16.50	81.20	64.70	16.50	45.70	81.20	107.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 2:00 AM	79.00	5.90	34.80	87.50	52.70	34.80	41.70	87.50	123.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 2:15 AM	77.00	6.60	17.50	204.10	186.60	17.50	38.60	204.10	87.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 2:30 AM	84.00	6.60	18.40	70.70	52.30	18.40	28.30	70.70	55.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 2:45 AM	77.00	7.50	19.30	43.30	24.00	19.30	30.10	43.30	69.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 3:00 AM	64.00	6.10	16.50	50.30	33.80	16.50	28.60	50.30	50.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 3:15 AM	65.00	9.10	23.00	58.70	35.70	23.00	34.20	58.70	65.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 3:30 AM	79.00	9.00	13.00	83.10	70.10	13.00	46.10	83.10	54.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 3:45 AM	77.00	6.00	35.40	82.00	46.60	35.40	51.20	82.00	54.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 4:00 AM	80.00	5.90	13.70	43.10	29.40	13.70	30.30	43.10	43.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 4:15 AM	82.00	8.70	25.50	61.20	35.70	25.50	33.10	61.20	45.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 4:30 AM	66.00	5.90	21.30	70.00	48.70	21.30	29.60	70.00	46.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 4:45 AM	79.00	3.40	22.90	186.30	163.40	22.90	43.90	186.30	42.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 5:00 AM	54.00	8.60	10.80	126.30	115.50	10.80	29.70	126.30	51.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 5:15 AM	65.00	5.90	12.60	88.70	76.10	12.60	52.50	88.70	48.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 5:30 AM	50.00	8.90	13.20	96.40	83.20	13.20	64.40	96.40	44.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 5:45 AM	63.00	7.60	16.20	98.50	82.30	16.20	56.40	98.50	50.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 6:00 AM	49.00	8.60	13.00	146.70	133.70	13.00	96.80	146.70	59.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 6:15 AM	61.00	5.90	13.90	81.20	67.30	13.90	57.00	81.20	59.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 6:30 AM	47.00	7.70	11.20	83.70	72.50	11.20	74.90	83.70	67.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 6:45 AM	44.00	6.90	11.10	75.70	64.60	11.10	51.90	75.70	45.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 7:00 AM	59.00	9.00	11.60	78.10	66.50	11.60	67.10	78.10	67.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 7:15 AM	64.00	9.30	11.70	65.60	53.90	11.70	78.30	65.60	54.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 7:30 AM	47.00	9.70	13.20	78.20	65.00	13.20	88.70	78.20	70.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 7:45 AM	54.00	10.30	11.20	47.70	36.50	11.20	59.30	47.70	45.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 8:00 AM	61.00	5.80	13.50	74.00	60.50	13.50	142.80	74.00	57.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 8:15 AM	46.00	9.20	10.10	60.20	50.10	10.10	80.30	60.20	46.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 8:30 AM	65.00	8.20	11.30	89.40	78.10	11.30	92.40	89.40	81.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 8:45 AM	42.00	11.80	9.80	78.40	68.60	9.80	69.50	78.40	48.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 9:00 AM	47.00	9.00	16.30	93.80	77.50	16.30	67.10	93.80	63.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 9:15 AM	49.00	7.30	12.90	97.80	84.90	12.90	91.50	97.80	94.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 9:30 AM	62.00	9.80	12.70	122.40	109.70	12.70	101.90	122.40	67.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 9:45 AM	48.00	6.90	13.20	68.90	55.70	13.20	87.90	68.90	57.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 10:00 AM	74.00	8.30	12.30	70.10	57.80	12.30	76.90	70.10	54.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 10:15 AM	57.00	9.10	11.70	116.50	104.80	11.70	98.00	116.50	52.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 10:30 AM	48.00	12.60	13.80	80.30	66.50	13.80	129.60	80.30	49.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 10:45 AM	65.00	10.70	39.70	335.20	295.50	39.70	127.50	335.20	67.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 11:00 AM	56.00	8.30	13.90	66.80	52.90	13.90	102.20	66.80	54.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 11:15 AM	55.00	8.70	13.90	59.20	45.30	13.90	154.10	59.20	43.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 11:30 AM	37.00	7.70	18.50	138.10	119.60	18.50	142.80	138.10	83.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 11:45 AM	46.00	10.80	15.40	99.90	84.50	15.40	97.10	99.90	53.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 12:00 PM	53.00	11.00	12.50	98.20	85.70	12.50	98.90	98.20	39.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 12:15 PM	46.00	9.60	13.60	84.60	71.00	13.60	92.30	84.60	59.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 12:30 PM	40.00	10.10	17.10	116.90	99.80	17.10	123.90	116.90	57.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 12:45 PM	50.00	10.60	15.40	89.50	74.10	15.40	95.10	89.50	53.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 1:00 PM	55.00	10.30	15.20	73.80	58.60	15.20	119.50	73.80	42.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 1:15 PM	67.00	8.40	22.30	101.50	79.20	22.30	67.50	101.50	39.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 1:30 PM	48.00	9.30	10.80	57.40	46.60	10.80	64.00	57.40	40.20	1.10	0.00	0.00	1.10	0.00	0.00	
1/2/14 1:45 PM	39.00	10.10	11.20	93.50	82.30	11.20	65.50	93.50	38.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 2:00 PM	61.00	11.30	10.80	50.50	39.70	10.80	65.80	50.50	31.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 2:15 PM	54.00	8.60	15.90	108.90	93.00	15.90	94.80	108.90	44.90	1.40	0.00	0.00	1.40	0.00	0.00	
1/2/14 2:30 PM	45.00	12.90	11.70	70.90	59.20	11.70	78.30	70.90	39.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 2:45 PM	52.00	8.40	14.00	100.10	86.10	14.00	105.30	100.10	37.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 3:00 PM	37.00	8.30	14.70	73.70	59.00	14.70	89.50	73.70	38.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 3:15 PM	23.00	11.70	12.30	64.50	52.20	12.30	75.60	64.50	29.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 3:30 PM	38.00	9.50	0.00	58.40	0.00	0.00	79.60	58.40	28.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 3:45 PM	44.00	8.30	17.90	70.10	52.20	17.90	85.00	70.10	27.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 4:00 PM	42.00	12.70	14.00	168.20	154.20	14.00	130.80	168.20	26.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 4:15 PM	57.00	11.00	13.60	94.20	80.60	13.60	88.70	94.20	29.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 4:30 PM	22.00	10.10	20.40	97.70	77.30	20.40	142.60	97.70	37.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 4:45 PM	57.00	10.20	0.00	85.20	0.00	0.00	88.30	85.20	33.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 5:00 PM	59.00	8.80	17.10	103.70	86.60	17.10	115.10	103.70	20.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 5:15 PM	12.00	9.20	20.60	38.80	18.20	20.60	183.40	38.80	18.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 5:30 PM	329.00	6.90	42.00	103.10	61.10	25.20	103.10	103.10	42.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 5:45 PM	342.00	7.30	32.40	110.90	78.50	20.00	110.90	73.10	32.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 6:00 PM	333.00	6.60	32.90	109.20	76.30	20.20	109.20	92.30	32.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 6:15 PM	343.00	7.20	33.20	91.00	57.80	19.70	91.00	60.60	33.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 6:30 PM	340.00	6.50	33.50	112.40	78.90	25.10	112.40	80.60	33.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 6:45 PM	332.00	6.50	27.10	128.80	101.70	21.50	128.80	69.60	27.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 7:00 PM	0.00	0.00	0.00	0.00	0.00	22.40	90.80	44.40	25.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/2/14 7:15																



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January, 2013

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )							Naphthalene (µg/m <sup>3</sup> )						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
1/3/14 2:30 AM	285.00	2.60	25.30	52.10	26.80	23.00	52.10	30.70	25.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 2:45 AM	242.00	1.60	30.50	18.70	0.00	18.70	49.70	30.50	19.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 3:00 AM	260.00	1.90	27.00	18.00	0.00	18.00	47.40	27.00	18.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 3:15 AM	256.00	2.40	25.80	16.90	0.00	16.90	45.70	25.80	17.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 3:30 AM	237.00	1.70	29.60	17.80	0.00	17.80	56.10	29.60	18.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 3:45 AM	255.00	1.70	46.50	23.50	0.00	23.50	74.20	46.50	22.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 4:00 AM	192.00	2.00	60.20	28.40	0.00	28.40	78.10	60.20	26.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 4:15 AM	150.00	1.30	79.60	29.00	0.00	29.70	79.60	65.40	29.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 4:30 AM	192.00	1.30	57.80	27.90	0.00	27.90	78.50	57.80	29.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 4:45 AM	149.00	1.90	61.80	26.50	0.00	25.30	61.80	53.30	26.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 5:00 AM	174.00	2.10	53.30	23.60	0.00	20.70	53.30	44.30	23.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 5:15 AM	227.00	2.30	40.30	21.90	0.00	21.90	55.20	40.30	19.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 5:30 AM	272.00	2.40	18.10	57.30	39.20	20.20	57.30	36.80	18.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 5:45 AM	269.00	2.00	35.70	18.40	0.00	18.40	49.00	35.70	17.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 6:00 AM	216.00	1.90	34.70	19.10	0.00	19.10	47.00	34.70	18.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 6:15 AM	244.00	2.70	38.90	18.60	0.00	18.60	46.80	38.90	19.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 6:30 AM	249.00	1.80	42.70	19.50	0.00	19.50	46.00	42.70	17.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 6:45 AM	192.00	1.90	52.10	19.90	0.00	19.90	43.40	52.10	18.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 7:00 AM	0.00	0.00	0.00	0.00	0.00	23.90	44.30	31.20	18.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 7:15 AM	228.00	1.50	33.00	20.50	0.00	20.50	46.50	33.00	22.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 7:30 AM	235.00	2.60	33.60	20.70	0.00	20.70	48.30	33.60	21.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 7:45 AM	261.00	1.40	43.10	22.40	0.00	22.40	54.60	43.10	22.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 8:00 AM	246.00	1.40	46.20	25.50	0.00	25.50	54.00	46.20	21.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 8:15 AM	290.00	1.70	22.00	47.50	25.50	25.40	47.50	44.60	22.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 8:30 AM	113.00	1.00	50.60	25.10	0.00	26.10	50.60	44.20	25.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 8:45 AM	233.00	3.10	42.00	23.30	0.00	23.30	49.20	42.00	26.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 9:00 AM	232.00	1.60	43.20	25.00	0.00	25.00	45.80	43.20	23.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 9:15 AM	188.00	1.30	33.30	21.50	0.00	21.50	47.80	33.30	18.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 9:30 AM	195.00	1.70	32.40	21.40	0.00	21.40	42.10	32.40	15.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 9:45 AM	160.00	1.40	38.60	11.70	0.00	19.70	38.60	28.60	11.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 10:00 AM	203.00	1.80	29.00	18.60	0.00	18.60	40.10	29.00	10.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 10:15 AM	211.00	2.70	29.50	18.30	0.00	18.30	36.70	29.50	10.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 10:30 AM	205.00	3.00	37.20	20.90	0.00	20.90	33.20	37.20	10.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 10:45 AM	227.00	4.10	20.20	13.00	0.00	13.00	27.30	20.20	10.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 11:00 AM	201.00	7.10	13.20	11.30	0.00	11.30	19.60	13.20	8.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 11:15 AM	208.00	5.30	10.20	8.80	0.00	8.80	15.70	10.20	8.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 11:30 AM	207.00	3.60	8.90	8.00	0.00	8.00	15.10	8.90	7.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 11:45 AM	221.00	5.90	6.80	8.00	1.20	8.00	14.80	6.80	7.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 12:00 PM	204.00	4.30	5.40	6.30	0.90	6.30	13.30	5.40	6.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 12:15 PM	232.00	4.50	5.40	6.20	0.80	6.20	11.10	5.40	6.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 12:30 PM	200.00	6.30	5.10	6.10	1.00	6.10	11.10	5.10	6.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 12:45 PM	206.00	7.00	3.50	5.40	1.90	5.40	10.30	3.50	6.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 1:00 PM	198.00	6.50	5.30	6.00	0.70	6.00	12.90	5.30	9.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 1:15 PM	198.00	6.60	8.80	0.00	0.00	0.00	15.10	8.80	9.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 1:30 PM	196.00	3.40	8.70	7.40	0.00	7.40	14.40	8.70	10.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 1:45 PM	209.00	6.30	8.40	7.30	0.00	7.30	14.10	8.40	9.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 2:00 PM	217.00	6.30	7.00	6.80	0.00	6.80	13.00	7.00	9.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 2:15 PM	214.00	4.60	9.20	8.10	0.00	8.10	15.60	9.20	10.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 2:30 PM	192.00	5.50	9.00	7.00	0.00	7.00	11.60	9.00	10.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 2:45 PM	200.00	7.60	7.60	0.00	0.00	0.00	10.60	7.60	10.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 3:00 PM	203.00	7.40	6.90	6.30	0.00	6.30	14.70	6.90	10.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 3:15 PM	199.00	9.00	8.00	7.60	0.00	7.60	12.80	8.00	10.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 3:30 PM	193.00	9.10	9.30	6.60	0.00	6.60	12.70	9.30	12.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 3:45 PM	211.00	7.80	7.80	6.40	0.00	6.40	12.00	7.80	9.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 4:00 PM	196.00	9.10	7.10	6.50	0.00	6.50	11.80	7.10	10.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 4:15 PM	197.00	6.40	6.80	6.40	0.00	6.40	11.20	6.80	8.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 4:30 PM	185.00	8.40	6.30	6.60	0.30	6.60	11.30	6.30	9.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 4:45 PM	199.00	6.10	11.40	8.90	0.00	8.90	19.40	11.40	11.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 5:00 PM	188.00	10.70	9.60	6.90	0.00	6.90	12.90	9.60	12.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 5:15 PM	178.00	8.10	14.60	18.30	3.70	8.60	14.60	8.50	18.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 5:30 PM	184.00	8.60	14.50	9.20	0.00	9.20	16.70	14.50	17.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 5:45 PM	169.00	8.20	20.30	18.30	0.00	9.80	20.30	11.20	18.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 6:00 PM	183.00	7.40	15.30	11.10	0.00	11.10	20.50	15.30	20.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 6:15 PM	198.00	6.20	16.10	11.10	0.00	11.10	21.50	16.10	21.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 6:30 PM	204.00	6.70	15.50	12.20	0.00	12.20	23.20	15.50	17.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 6:45 PM	199.00	5.80	19.10	12.90	0.00	12.90	21.90	19.10	17.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 7:00 PM	190.00	7.00	15.60	12.90	0.00	12.90	20.60	15.60	17.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 7:15 PM	199.00	7.90	13.30	11.90	0.00	11.90	18.10	13.30	15.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 7:30 PM	181.00	8.00	13.60	11.80	0.00	11.80	17.10	13.60	18.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 7:45 PM	199.00	10.10	11.80	11.80	0.00	11.80	17.10	11.80	20.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 8:00 PM	193.00	8.20	11.20	12.60	1.40	12.60	16.00	11.20	23.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 8:15 PM	193.00	7.10	12.10	13.00	0.90	13.00	18.00	12.10	23.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 8:30 PM	200.00	7.30	13.70	17.00	3.30	17.00	19.00	13.70	24.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/3/14 8:45 PM	202.00	11.														



US Army Corps  
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Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
January, 2013

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )							Naphthalene (µg/m <sup>3</sup> )						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
1/4/14 3:45 AM	202.00	7.40	22.70	20.20	0.00	20.20	19.90	22.70	24.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 4:00 AM	198.00	6.90	20.80	18.60	0.00	18.60	19.70	20.80	24.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 4:15 AM	188.00	8.40	20.60	18.40	0.00	18.40	20.10	20.60	25.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 4:30 AM	219.00	8.90	19.10	18.50	0.00	18.50	18.80	19.10	24.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 4:45 AM	197.00	8.30	18.70	17.20	0.00	17.20	17.80	18.70	24.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 5:00 AM	205.00	10.50	19.60	17.60	0.00	17.60	17.10	19.60	26.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 5:15 AM	222.00	9.20	18.80	17.10	0.00	17.10	17.30	18.80	24.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 5:30 AM	213.00	10.70	18.20	17.20	0.00	17.20	16.50	18.20	23.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 5:45 AM	215.00	7.30	16.80	16.70	0.00	16.70	15.70	16.80	23.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 6:00 AM	214.00	7.20	17.00	16.30	0.00	16.30	15.60	17.00	23.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 6:15 AM	209.00	7.40	16.60	15.10	0.00	15.10	15.50	16.60	23.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 6:30 AM	210.00	10.50	16.90	15.10	0.00	15.10	14.70	16.90	23.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 6:45 AM	218.00	7.90	17.50	15.50	0.00	15.50	14.90	17.50	22.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 7:00 AM	201.00	6.30	16.00	15.60	0.00	15.60	15.10	16.00	21.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 7:15 AM	207.00	6.30	15.90	14.90	0.00	14.90	14.80	15.90	20.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 7:30 AM	207.00	6.60	14.90	15.40	0.50	15.40	14.50	14.90	20.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 7:45 AM	218.00	7.00	15.10	14.70	0.00	14.70	14.00	15.10	24.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 8:00 AM	214.00	9.00	14.10	14.40	0.30	14.40	14.10	14.10	21.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 8:15 AM	230.00	6.40	14.10	14.40	0.30	14.40	13.20	14.10	19.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 8:30 AM	217.00	8.90	13.10	13.40	0.30	13.40	13.10	13.10	20.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 8:45 AM	220.00	8.10	12.80	19.90	7.10	19.90	14.80	12.80	19.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 9:00 AM	212.00	8.90	12.20	13.50	1.30	13.50	13.00	12.20	19.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 9:15 AM	239.00	6.10	12.00	13.40	1.40	13.40	12.50	12.00	18.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 9:30 AM	204.00	8.00	11.80	13.90	2.10	13.90	12.50	11.80	17.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 9:45 AM	227.00	6.50	10.80	16.40	5.60	16.40	11.80	10.80	16.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 10:00 AM	221.00	8.80	11.60	17.10	5.50	17.10	16.30	11.60	17.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 10:15 AM	234.00	8.90	11.90	22.90	11.00	22.90	14.10	11.90	17.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 10:30 AM	241.00	10.50	11.10	15.40	4.30	15.40	14.10	11.10	17.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 10:45 AM	217.00	10.80	12.20	14.20	2.00	14.20	13.00	12.20	17.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 11:00 AM	210.00	10.90	12.20	13.80	1.60	13.80	13.60	12.20	18.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 11:15 AM	221.00	10.80	12.70	14.80	2.10	14.80	14.80	12.70	18.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 11:30 AM	228.00	7.40	13.20	16.30	3.10	16.30	14.50	13.20	18.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 11:45 AM	223.00	9.10	24.10	14.30	0.00	14.30	14.70	24.10	18.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 12:00 PM	229.00	10.50	14.60	15.90	1.30	15.90	14.70	14.60	18.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 12:15 PM	216.00	10.50	15.40	14.50	0.00	14.50	14.60	15.40	18.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 12:30 PM	237.00	7.00	15.90	14.50	0.00	14.50	14.90	15.90	17.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 12:45 PM	222.00	7.70	15.80	14.50	0.00	14.50	15.60	15.80	17.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 1:00 PM	240.00	7.30	17.50	14.90	0.00	14.90	15.60	17.50	17.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 1:15 PM	227.00	9.60	17.60	15.70	0.00	15.70	16.20	17.60	18.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 1:30 PM	252.00	9.60	18.50	15.40	0.00	15.40	17.20	18.50	18.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 1:45 PM	237.00	8.00	17.70	14.90	0.00	14.90	17.20	17.70	19.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 2:00 PM	239.00	8.00	18.20	14.40	0.00	14.40	17.10	18.20	19.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 2:15 PM	229.00	9.00	17.10	14.90	0.00	14.90	17.00	17.10	19.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 2:30 PM	235.00	8.60	17.10	14.80	0.00	14.80	16.70	17.10	19.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 2:45 PM	217.00	5.70	16.70	14.40	0.00	14.40	15.90	16.70	20.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 3:00 PM	254.00	7.00	17.10	14.80	0.00	14.80	15.20	17.10	19.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 3:15 PM	213.00	6.40	17.40	14.70	0.00	14.70	15.60	17.40	20.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 3:30 PM	227.00	5.80	15.90	14.90	0.00	14.90	15.60	15.90	19.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 3:45 PM	223.00	6.30	15.70	14.50	0.00	14.50	15.80	15.70	19.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 4:00 PM	219.00	4.20	16.40	14.80	0.00	14.80	16.60	16.40	18.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 4:15 PM	229.00	4.50	18.40	15.40	0.00	15.40	18.10	18.40	18.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 4:30 PM	233.00	5.20	18.50	17.00	0.00	17.00	19.70	18.50	18.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 4:45 PM	235.00	3.90	16.80	16.20	0.00	16.20	19.00	16.80	18.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 5:00 PM	241.00	3.80	17.40	15.50	0.00	15.50	17.20	17.40	18.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 5:15 PM	240.00	4.50	19.00	16.20	0.00	16.20	17.30	19.00	18.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 5:30 PM	253.00	3.20	21.10	17.70	0.00	17.70	20.10	21.10	16.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 5:45 PM	242.00	2.30	24.00	18.20	0.00	18.20	22.60	24.00	16.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 6:00 PM	236.00	2.30	29.90	19.10	0.00	19.10	24.40	29.90	14.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 6:15 PM	235.00	3.00	27.40	20.50	0.00	20.50	22.80	27.40	13.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 6:30 PM	233.00	2.00	29.00	20.20	0.00	20.20	23.80	29.00	15.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 6:45 PM	215.00	1.70	29.50	21.10	0.00	21.10	25.10	29.50	16.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 7:00 PM	210.00	2.80	29.50	21.10	0.00	21.10	25.10	29.50	16.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 7:15 PM	220.00	2.50	31.30	21.80	0.00	21.80	26.50	31.30	18.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 7:30 PM	202.00	2.40	30.70	22.70	0.00	22.70	26.30	30.70	19.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 7:45 PM	198.00	2.50	33.70	24.30	0.00	24.30	30.80	33.70	19.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 8:00 PM	217.00	2.00	47.80	31.60	0.00	31.60	39.80	47.80	21.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 8:15 PM	195.00	2.60	45.80	31.30	0.00	31.30	37.20	45.80	20.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 8:30 PM	223.00	1.60	41.20	29.50	0.00	29.50	33.80	41.20	20.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 8:45 PM	216.00	1.50	38.70	27.50	0.00	27.50	32.90	38.70	19.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 9:00 PM	199.00	1.80	38.60	26.70	0.00	26.70	33.40	38.60	20.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 9:15 PM	221.00	1.80	41.00	28.10	0.00	28.10	33.70	41.00	21.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 9:30 PM	217.00	1.60	41.20	28.50	0.00	28.50	33.50	41.20	22.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/4/14 9:45 PM	212.00	1.40	39.80	27.90	0.00	27.90	33.00									



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Real-Time Air Monitoring Data  
January, 2013

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		
1/5/14 5:15 AM	1.00	11.30	10.00	13.20	3.20	10.00	11.80	13.20	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 5:30 AM	12.00	14.10	9.40	11.70	2.30	9.40	11.70	11.70	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 5:45 AM	4.00	12.60	9.60	11.10	1.50	9.60	11.40	11.10	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 6:00 AM	4.00	11.40	9.70	11.70	2.00	9.70	12.20	11.70	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 6:15 AM	13.00	12.10	9.20	10.40	1.20	9.20	12.90	10.40	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 6:30 AM	15.00	8.60	10.20	10.20	0.00	10.20	15.00	10.20	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 6:45 AM	6.00	10.10	15.40	9.00	0.00	15.40	16.50	9.00	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 7:00 AM	13.00	12.50	8.20	8.60	0.40	8.20	11.70	8.60	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 7:15 AM	13.00	11.40	8.20	8.40	0.20	8.20	14.40	8.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 7:30 AM	11.00	13.10	10.60	8.60	0.00	10.60	10.90	8.60	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 7:45 AM	4.00	13.40	10.50	8.00	0.00	10.50	15.70	8.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 8:00 AM	7.00	11.20	13.30	7.70	0.00	13.30	18.50	7.70	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 8:15 AM	21.00	15.20	9.60	8.00	0.00	9.60	14.80	8.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 8:30 AM	13.00	16.70	12.40	7.70	0.00	12.40	14.00	7.70	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 8:45 AM	22.00	9.00	13.30	7.50	0.00	13.30	17.50	7.50	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 9:00 AM	9.00	9.20	14.60	7.80	0.00	14.60	19.00	7.80	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 9:15 AM	15.00	10.40	10.00	7.80	0.00	10.00	14.50	7.80	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 9:30 AM	4.00	12.60	7.80	8.40	0.60	7.80	12.70	8.40	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 9:45 AM	16.00	10.80	7.70	13.00	5.30	7.70	11.60	13.00	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 10:00 AM	15.00	13.10	11.80	13.70	1.90	11.80	21.90	13.70	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 10:15 AM	20.00	11.30	17.70	11.60	0.00	17.70	11.90	11.60	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 10:30 AM	22.00	12.20	13.70	13.20	0.00	13.70	13.10	13.20	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 10:45 AM	33.00	12.40	10.70	26.00	15.30	10.70	9.40	26.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 11:00 AM	42.00	12.30	7.90	18.20	10.30	7.90	9.00	18.20	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 11:15 AM	23.00	11.40	7.60	17.00	9.40	7.60	7.60	17.00	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 11:30 AM	32.00	12.70	7.10	14.80	7.70	7.10	7.20	14.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 11:45 AM	26.00	16.20	9.00	18.90	9.90	9.00	7.00	18.90	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 12:00 PM	14.00	13.70	10.60	11.50	0.90	10.60	10.20	11.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 12:15 PM	14.00	13.40	7.70	46.10	38.40	7.70	15.10	46.10	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 12:30 PM	10.00	14.40	8.60	91.90	83.30	8.60	10.80	91.90	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 12:45 PM	10.00	12.60	9.20	340.50	331.30	9.20	18.00	340.50	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 1:00 PM	13.00	16.30	9.10	14010.70	14001.60	9.10	29.60	14010.70	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 1:15 PM	6.00	17.70	8.50	47340.80	47332.30	8.50	56.40	47340.80	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 1:30 PM	9.00	15.20	7.20	47340.80	47333.60	7.20	130.60	47340.80	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 1:45 PM	6.00	17.00	7.30	55326.90	55319.60	7.30	251.00	55326.90	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 2:00 PM	10.00	14.00	7.50	84817.40	84809.90	7.50	6222.90	84817.40	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 2:15 PM	13.00	15.30	8.30	82188.00	82179.70	8.30	12916.20	82188.00	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 2:30 PM	0.00	12.00	8.30	49047.20	49038.90	8.30	112767.60	49047.20	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 2:45 PM	2.00	15.70	0.00	52278.30	0.00	0.00	112767.60	52278.30	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 3:00 PM	10.00	16.80	7.70	72535.70	72528.00	7.70	112767.60	72535.70	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 3:15 PM	2.00	13.10	7.40	29447.60	29440.20	7.40	112767.60	29447.60	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 3:30 PM	10.00	17.90	8.30	11105.30	11097.00	8.30	112767.60	11105.30	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 3:45 PM	10.00	16.80	7.80	0.00	0.00	7.80	112767.60	0.00	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 4:00 PM	2.00	13.90	7.90	6608.40	6600.50	7.90	112767.60	6608.40	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 4:15 PM	9.00	14.40	10.80	6851.30	6840.50	10.80	112767.60	6851.30	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 4:30 PM	0.00	17.40	8.80	6525.20	6516.40	8.80	112767.60	6525.20	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 4:45 PM	8.00	16.40	8.40	4416.00	4407.60	8.40	112767.60	4416.00	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 5:00 PM	1.00	13.20	9.00	3525.00	3516.00	9.00	112767.60	3525.00	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 5:15 PM	11.00	15.60	10.30	4022.90	4012.60	10.30	112767.60	4022.90	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 5:30 PM	357.00	9.70	23.50	112767.60	112744.10	0.00	112767.60	4007.90	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 5:45 PM	346.00	10.10	21.80	112767.60	112745.80	0.00	112767.60	1748.80	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 6:00 PM	357.00	9.60	21.60	112767.60	112746.00	0.00	112767.60	1214.50	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 6:15 PM	345.00	9.80	20.40	112767.60	112747.20	0.00	112767.60	673.50	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 6:30 PM	355.00	6.40	19.80	112767.60	112747.80	9.70	112767.60	20.90	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 6:45 PM	356.00	8.70	19.90	112767.60	112747.70	10.40	112767.60	20.90	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 7:00 PM	329.00	6.90	19.60	112767.60	112748.00	10.80	112767.60	22.80	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 7:15 PM	336.00	7.70	17.40	112767.60	112750.20	0.00	112767.60	14.30	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 7:30 PM	348.00	7.40	19.60	112767.60	112748.00	0.00	112767.60	27.60	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 7:45 PM	346.00	7.00	16.80	112767.60	112750.80	10.20	112767.60	170.60	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 8:00 PM	3.00	5.60	10.40	119.40	109.00	10.40	112767.60	119.40	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 8:15 PM	346.00	8.60	16.20	112767.60	112751.40	10.90	112767.60	119.40	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 8:30 PM	336.00	10.00	19.50	112767.60	112748.10	11.50	112767.60	711.90	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 8:45 PM	339.00	6.30	18.20	112767.60	112749.40	13.00	112767.60	61.70	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 9:00 PM	334.00	10.50	29.00	112767.60	112738.60	14.30	112767.60	89.10	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 9:15 PM	340.00	9.10	16.00	112767.60	112751.60	12.10	112767.60	50.10	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 9:30 PM	326.00	9.00	18.20	112767.60	112749.40	16.90	112767.60	136.50	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 9:45 PM	330.00	7.90	21.20	112767.60	112746.40	14.20	112767.60	31.30	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/5/14 10:00 PM	325.00																	





US Army Corps  
of Engineers®

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
January, 2013

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )								Naphthalene (µg/m <sup>3</sup> )							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
1/7/14 7:45 AM	248.00	4.80	8.30	15.50	7.20	15.50	112767.60	8.30	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 8:00 AM	240.00	5.80	7.80	16.00	8.20	16.00	112767.60	7.80	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 8:15 AM	245.00	3.90	6.80	14.20	7.40	14.20	112767.60	6.80	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 8:30 AM	228.00	4.20	7.20	14.60	7.40	14.60	112767.60	7.20	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 8:45 AM	226.00	4.40	8.20	15.30	7.10	15.30	112767.60	8.20	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 9:00 AM	219.00	4.60	9.00	16.00	7.00	16.00	112767.60	9.00	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 9:15 AM	250.00	3.70	9.20	15.80	6.60	15.80	112767.60	9.20	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 9:30 AM	234.00	4.60	8.30	14.70	6.40	14.70	112767.60	8.30	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 9:45 AM	243.00	4.00	8.00	14.10	6.10	14.10	112767.60	8.00	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 10:00 AM	285.00	7.30	7.10	112767.60	112760.50	13.50	112767.60	7.70	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 10:15 AM	242.00	3.90	7.40	12.10	4.70	12.10	112767.60	7.40	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 10:30 AM	264.00	5.60	6.80	11.90	5.10	11.90	112767.60	6.80	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 10:45 AM	252.00	6.90	6.80	11.80	5.00	11.80	112767.60	6.80	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 11:00 AM	255.00	5.10	7.00	11.40	4.40	11.40	112767.60	7.00	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 11:15 AM	252.00	4.20	6.90	10.70	3.80	10.70	112767.60	6.90	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 11:30 AM	284.00	5.10	6.30	112767.60	112761.30	8.00	112767.60	5.20	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 11:45 AM	270.00	5.00	6.50	112767.60	112761.10	7.70	112767.60	4.30	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 12:00 PM	283.00	7.30	6.60	112767.60	112761.00	7.80	112767.60	4.70	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 12:15 PM	264.00	5.20	5.20	7.90	2.70	7.90	112767.60	5.20	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 12:30 PM	230.00	4.00	6.10	9.00	2.90	9.00	112767.60	6.10	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 12:45 PM	247.00	3.70	6.00	9.20	3.20	9.20	112767.60	6.00	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 1:00 PM	204.00	4.70	6.30	9.10	2.80	9.10	112767.60	6.30	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 1:15 PM	264.00	4.80	6.20	8.90	2.70	8.90	112767.60	6.20	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 1:30 PM	231.00	4.10	6.10	8.30	2.20	8.30	112767.60	6.10	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 1:45 PM	217.00	5.30	5.70	8.30	2.60	8.30	112767.60	5.70	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 2:00 PM	244.00	3.70	5.80	8.30	2.50	8.30	112767.60	5.80	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 2:15 PM	243.00	6.30	5.30	8.10	2.80	8.10	112767.60	5.30	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 2:30 PM	235.00	7.20	5.30	7.70	2.40	7.70	112767.60	5.30	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 2:45 PM	211.00	5.90	7.30	7.60	0.30	7.60	2409.90	7.30	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 3:00 PM	199.00	4.10	7.10	7.70	0.60	7.70	1524.40	7.10	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 3:15 PM	226.00	3.10	6.30	7.40	1.10	7.40	1015.00	6.30	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 3:30 PM	211.00	4.90	6.30	7.50	1.20	7.50	853.80	6.30	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 3:45 PM	237.00	3.60	6.50	7.10	0.60	7.10	750.00	6.50	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 4:00 PM	235.00	5.10	6.40	7.30	0.90	7.30	669.10	6.40	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 4:15 PM	216.00	4.10	6.80	7.10	0.30	7.10	607.80	6.80	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 4:30 PM	216.00	5.20	8.30	8.00	0.00	8.00	573.50	8.30	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 4:45 PM	198.00	3.20	6.60	7.30	0.70	7.30	499.20	6.60	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 5:00 PM	219.00	4.20	7.00	7.70	0.70	7.70	474.40	7.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 5:15 PM	217.00	4.70	7.10	7.60	0.50	7.60	428.40	7.10	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 5:30 PM	216.00	3.70	7.20	8.00	0.80	8.00	399.90	7.20	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 5:45 PM	210.00	2.60	7.30	8.00	0.70	8.00	382.50	7.30	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 6:00 PM	205.00	2.20	7.90	8.40	0.50	8.40	366.20	7.90	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 6:15 PM	199.00	1.70	8.30	8.50	0.20	8.50	356.10	8.30	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 6:30 PM	225.00	2.20	8.50	9.40	0.90	9.40	321.20	8.50	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 6:45 PM	215.00	2.00	10.80	10.20	0.00	10.20	309.10	10.80	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 7:00 PM	191.00	1.60	10.80	10.40	0.00	10.40	297.20	10.80	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 7:15 PM	215.00	2.10	11.40	10.70	0.00	10.70	275.70	11.40	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 7:30 PM	212.00	2.80	11.30	11.60	0.30	11.60	260.90	11.30	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 7:45 PM	214.00	2.60	12.30	12.10	0.00	12.10	251.50	12.30	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 8:00 PM	206.00	3.20	13.50	11.90	0.00	11.90	238.20	13.50	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 8:15 PM	199.00	1.40	10.70	11.10	0.40	11.10	229.90	10.70	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 8:30 PM	214.00	4.90	10.20	10.70	0.50	10.70	214.90	10.20	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 8:45 PM	200.00	4.10	10.80	10.20	0.00	10.20	201.40	10.80	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 9:00 PM	210.00	3.70	10.10	10.90	0.80	10.90	194.80	10.10	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 9:15 PM	207.00	2.70	10.80	11.20	0.40	11.20	184.70	10.80	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 9:30 PM	218.00	3.80	10.20	10.80	0.60	10.80	176.50	10.20	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 9:45 PM	209.00	2.30	9.60	12.40	2.80	12.40	168.80	9.60	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 10:00 PM	212.00	3.30	10.20	10.00	0.00	10.00	159.00	10.20	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 10:15 PM	219.00	2.40	10.20	10.90	0.70	10.90	155.20	10.20	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 10:30 PM	209.00	2.20	10.30	10.80	0.50	10.80	145.80	10.30	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 10:45 PM	206.00	2.40	10.30	10.60	0.30	10.60	140.10	10.30	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 11:00 PM	188.00	1.20	10.30	10.70	0.40	10.70	136.10	10.30	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 11:15 PM	187.00	1.30	11.20	10.90	0.00	10.90	132.50	11.20	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 11:30 PM	180.00	1.90	11.10	10.50	0.00	10.50	124.40	11.10	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/14 11:45 PM	217.00	1.80	11.20	10.50	0.00	10.50	119.10	11.20	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/14 12:00 AM	201.00	1.30	11.90	10.40	0													







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Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
January, 2013

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )								Naphthalene (µg/m <sup>3</sup> )							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
1/9/14 10:15 AM	150.00	3.60	7.20	26.10	18.90	35.30	7.20	26.40	26.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 10:30 AM	165.00	2.90	7.20	26.30	19.10	32.20	7.20	27.50	26.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 10:45 AM	162.00	5.90	8.30	25.50	17.20	37.10	8.30	31.90	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 11:00 AM	178.00	5.60	9.40	25.60	16.20	33.90	9.40	32.40	25.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 11:15 AM	170.00	3.70	10.10	26.40	16.30	34.90	10.10	33.70	26.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 11:30 AM	191.00	3.00	35.90	36.20	0.30	36.20	10.60	35.90	28.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 11:45 AM	177.00	3.40	11.10	28.10	17.00	36.70	11.10	36.60	28.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 12:00 PM	173.00	3.00	12.40	33.30	20.90	42.00	12.40	38.60	33.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 12:15 PM	170.00	2.70	13.70	35.60	21.90	41.10	13.70	39.70	35.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 12:30 PM	194.00	1.80	39.90	41.50	1.60	41.50	13.50	39.90	35.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 12:45 PM	191.00	2.80	40.80	41.00	0.20	41.00	14.40	40.80	35.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 1:00 PM	180.00	2.00	41.40	41.80	0.40	41.80	14.70	41.40	38.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 1:15 PM	183.00	3.30	41.70	39.90	0.00	39.90	15.20	41.70	38.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 1:30 PM	187.00	2.70	40.80	38.80	0.00	38.80	15.20	40.80	38.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 1:45 PM	190.00	3.50	40.00	39.30	0.00	39.30	15.20	40.00	37.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 2:00 PM	193.00	2.60	39.10	39.30	0.20	39.30	15.00	39.10	36.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 2:15 PM	175.00	4.00	16.90	35.60	18.70	40.40	16.90	40.90	35.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 2:30 PM	169.00	1.70	18.20	35.40	17.20	42.80	18.20	41.20	35.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 2:45 PM	173.00	2.80	18.20	35.40	17.20	42.20	18.20	42.20	35.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 3:00 PM	193.00	2.70	45.60	42.10	0.00	42.10	18.00	45.60	35.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 3:15 PM	174.00	2.70	19.80	36.30	16.50	42.70	19.80	42.80	36.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 3:30 PM	169.00	2.00	21.00	39.70	18.70	44.80	21.00	44.60	39.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 3:45 PM	149.00	2.10	21.10	39.70	18.60	48.50	21.10	44.60	39.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 4:00 PM	158.00	3.80	21.00	47.40	26.40	58.50	21.00	46.10	47.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 4:15 PM	158.00	2.30	23.00	36.20	13.20	52.40	23.00	43.50	36.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 4:30 PM	152.00	3.30	24.00	43.50	19.50	63.80	24.00	45.60	43.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 4:45 PM	153.00	3.60	23.40	38.70	15.30	46.80	23.40	46.00	38.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 5:00 PM	162.00	4.30	24.40	40.30	15.90	48.80	24.40	47.50	40.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 5:15 PM	172.00	2.60	24.40	41.30	16.90	51.40	24.40	47.60	41.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 5:30 PM	162.00	3.10	26.90	41.40	14.50	51.20	26.90	46.90	41.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 5:45 PM	159.00	3.80	27.20	44.70	17.50	65.90	27.20	49.80	44.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 6:00 PM	109.00	3.20	27.90	54.70	26.80	75.90	27.90	48.40	54.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 6:15 PM	151.00	3.70	28.00	47.30	19.30	53.50	28.00	41.70	47.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 6:30 PM	156.00	3.70	29.20	43.90	14.70	56.40	29.20	43.90	43.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 6:45 PM	167.00	5.00	29.50	43.90	14.40	56.40	29.50	44.10	43.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 7:00 PM	166.00	4.00	30.50	42.30	11.80	55.30	30.50	45.20	42.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 7:15 PM	155.00	4.10	32.00	42.60	10.60	52.60	32.00	47.80	42.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 7:30 PM	164.00	4.00	33.20	42.40	9.20	55.40	33.20	47.10	42.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 7:45 PM	167.00	3.50	34.60	44.20	9.60	56.40	34.60	47.90	44.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 8:00 PM	195.00	4.00	47.40	57.50	10.10	57.50	35.80	47.40	44.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 8:15 PM	178.00	5.00	36.30	44.30	8.00	53.60	36.30	47.60	44.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 8:30 PM	160.00	4.60	34.40	41.80	7.40	51.50	34.40	48.10	41.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 8:45 PM	172.00	3.40	36.20	43.50	7.30	53.10	36.20	45.80	43.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 9:00 PM	164.00	4.00	35.80	43.40	7.60	53.60	35.80	46.30	43.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 9:15 PM	178.00	4.10	35.70	41.50	5.80	56.90	35.70	45.70	41.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 9:30 PM	174.00	2.70	35.60	41.80	6.20	55.80	35.60	45.80	41.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 9:45 PM	186.00	3.60	45.30	57.40	12.10	57.40	35.10	45.30	41.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 10:00 PM	176.00	3.50	35.10	40.20	5.10	54.30	35.10	45.00	40.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 10:15 PM	187.00	4.90	44.60	54.20	9.60	54.20	38.40	44.60	39.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 10:30 PM	173.00	3.40	40.90	39.40	0.00	52.70	40.90	44.50	39.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 10:45 PM	186.00	3.90	44.40	51.00	6.60	51.00	41.70	44.40	39.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 11:00 PM	171.00	5.10	40.20	38.90	0.00	49.70	40.20	44.00	38.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 11:15 PM	175.00	4.50	39.90	37.90	0.00	47.60	39.90	41.50	37.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 11:30 PM	200.00	3.60	40.10	45.00	4.90	45.00	37.80	41.00	36.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/14 11:45 PM	184.00	4.20	41.40	44.00	2.60	44.00	36.20	41.40	35.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 12:00 AM	203.00	6.20	40.60	44.30	3.70	44.30	37.00	40.60	35.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 12:15 AM	184.00	3.30	39.30	44.40	5.10	44.40	36.50	39.30	35.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 12:30 AM	206.00	3.30	39.60	42.20	2.60	42.20	35.70	39.60	35.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 12:45 AM	189.00	3.90	38.40	42.20	3.80	42.20	34.90	38.40	34.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 1:00 AM	188.00	3.00	38.40	36.80	0.00	36.80	30.70	38.40	33.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 1:15 AM	186.00	3.30	29.90	33.70	3.80	33.70	27.00	29.90	27.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 1:30 AM	219.00	4.00	27.50	28.30	0.80	28.30	23.60	27.50	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 1:45 AM	206.00	3.90	25.20	26.60	1.40	26.60	20.70	25.20	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 2:00 AM	187.00	3.90	24.50	27.80	3.30	27.80	21.50	24.50	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 2:15 AM	197.00	4.60	23.60	25.80	2.20	25.80	20.30	23.60	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 2:30 AM	194.00	3.40	23.60	25.40	1.80	25.40	19.90	23.60	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 2:45 AM	202.00	4.70	21.60	25.10	3.50	25.10	19.50	21.60	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 3:00 AM	206.00	3.50	20.50	26.10	5.60	26.10	20.60	20.50	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 3:15 AM	190.00	2.80	19.60	26.80	7.20	26.80	20.60	19.6										



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Real-Time Air Monitoring Data  
January, 2013

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )								Naphthalene (µg/m <sup>3</sup> )							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
1/10/14 11:30 AM	163.00	3.60	15.80	11.30	0.00	19.60	15.80	2.10	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 11:45 AM	164.00	5.10	18.30	12.90	0.00	20.60	18.30	2.40	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 12:00 PM	169.00	5.30	21.60	13.80	0.00	20.50	21.60	2.60	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 12:15 PM	178.00	7.50	15.80	11.90	0.00	17.70	15.80	2.30	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 12:30 PM	169.00	5.10	15.80	11.90	0.00	17.40	15.80	2.10	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 12:45 PM	174.00	4.40	15.60	11.90	0.00	18.70	15.60	2.10	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 1:00 PM	174.00	4.90	16.70	11.70	0.00	21.80	16.70	2.40	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 1:15 PM	165.00	7.10	20.40	12.70	0.00	24.00	20.40	2.70	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 1:30 PM	181.00	6.20	3.20	29.50	26.30	29.50	24.00	3.20	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 1:45 PM	167.00	4.90	24.60	14.10	0.00	31.60	24.60	3.50	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 2:00 PM	206.00	3.90	3.70	29.90	26.20	29.90	24.90	3.70	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 2:15 PM	180.00	4.70	3.60	26.00	22.40	26.00	24.60	3.60	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 2:30 PM	180.00	3.90	3.70	28.10	24.40	28.10	31.60	3.70	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 2:45 PM	171.00	3.80	26.00	11.90	0.00	29.00	26.00	3.70	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 3:00 PM	165.00	5.50	26.70	13.30	0.00	28.70	26.70	4.10	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 3:15 PM	164.00	5.50	29.50	13.80	0.00	29.10	29.50	4.20	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 3:30 PM	202.00	4.60	4.20	29.10	24.90	29.10	28.90	4.20	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 3:45 PM	171.00	4.00	28.30	15.10	0.00	28.80	28.30	4.20	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 4:00 PM	181.00	3.50	4.20	28.80	24.60	28.80	28.30	4.20	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 4:15 PM	183.00	4.80	3.70	28.00	24.30	28.00	22.40	3.70	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 4:30 PM	171.00	4.00	20.60	11.50	0.00	19.50	20.60	3.30	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 4:45 PM	179.00	5.60	19.30	10.60	0.00	15.60	19.30	3.40	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 5:00 PM	163.00	3.60	19.30	10.60	0.00	14.20	19.30	3.10	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 5:15 PM	174.00	7.20	17.20	10.60	0.00	13.60	17.20	3.10	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 5:30 PM	172.00	6.50	15.70	10.60	0.00	12.20	15.70	3.10	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 5:45 PM	184.00	5.40	2.40	12.20	9.80	12.20	15.70	2.40	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 6:00 PM	172.00	6.70	15.20	6.50	0.00	12.20	15.20	2.50	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 6:15 PM	163.00	6.00	15.40	6.10	0.00	10.70	15.40	2.40	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 6:30 PM	187.00	5.60	2.40	10.80	8.40	10.80	15.10	2.40	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 6:45 PM	190.00	6.60	2.50	10.80	8.30	10.80	15.60	2.50	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 7:00 PM	190.00	7.60	2.40	10.80	8.40	10.80	15.60	2.40	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 7:15 PM	200.00	5.40	2.40	10.80	8.40	10.80	15.60	2.40	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 7:30 PM	187.00	8.40	2.10	10.80	8.70	10.80	15.60	2.10	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 7:45 PM	177.00	7.00	15.60	6.50	0.00	8.90	15.60	1.70	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 8:00 PM	172.00	7.00	15.60	6.50	0.00	8.90	15.60	1.70	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 8:15 PM	175.00	7.30	10.20	6.50	0.00	8.90	10.20	1.70	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 8:30 PM	174.00	7.00	9.40	6.50	0.00	5.90	9.40	1.70	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 8:45 PM	179.00	8.50	9.20	6.50	0.00	5.90	9.20	1.70	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 9:00 PM	212.00	5.90	1.60	5.90	4.30	5.90	8.80	1.60	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 9:15 PM	191.00	7.10	1.60	5.90	4.30	5.90	8.60	1.60	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 9:30 PM	213.00	8.00	1.60	5.90	4.30	5.90	8.60	1.60	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 9:45 PM	212.00	5.60	1.80	5.90	4.10	5.90	8.60	1.80	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 10:00 PM	205.00	3.60	1.80	5.90	4.10	5.90	8.60	1.80	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 10:15 PM	207.00	3.60	1.80	5.90	4.10	5.90	8.60	1.80	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 10:30 PM	183.00	5.30	1.80	5.90	4.10	5.90	8.60	1.80	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 10:45 PM	210.00	5.90	2.40	5.90	3.50	5.90	10.20	2.40	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 11:00 PM	200.00	8.00	2.40	5.90	3.50	5.90	10.20	2.40	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 11:15 PM	208.00	6.40	2.40	5.90	3.50	5.90	10.20	2.40	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 11:30 PM	194.00	5.90	2.60	5.90	3.30	5.90	10.20	2.60	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/14 11:45 PM	183.00	6.20	2.60	5.90	3.30	5.90	10.20	2.60	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 12:00 AM	184.00	5.40	2.60	5.90	3.30	5.90	10.20	2.60	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 12:15 AM	200.00	7.80	2.50	5.90	3.40	5.90	10.20	2.50	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 12:30 AM	213.00	7.80	2.50	5.90	3.40	5.90	10.20	2.50	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 12:45 AM	210.00	5.90	2.50	5.90	3.40	5.90	10.20	2.50	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 1:00 AM	193.00	6.50	2.50	5.90	3.40	5.90	10.20	2.50	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 1:15 AM	231.00	5.80	2.50	5.90	3.40	5.90	10.20	2.50	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 1:30 AM	218.00	5.30	2.50	5.90	3.40	5.90	10.20	2.50	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 1:45 AM	203.00	6.50	2.40	5.90	3.50	5.90	10.20	2.40	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 2:00 AM	206.00	8.50	2.40	6.00	3.60	6.00	8.90	2.40	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 2:15 AM	197.00	7.40	2.40	6.00	3.60	6.00	8.90	2.40	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 2:30 AM	218.00	4.40	2.40	6.20	3.80	6.20	8.90	2.40	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 2:45 AM	213.00	5.10	2.40	6.20	3.80	6.20	8.90	2.40	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 3:00 AM	225.00	4.60	2.40	6.20	3.80	6.20	8.90	2.40	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 3:15 AM	220.00	6.00	2.40	6.20	3.80	6.20	8.90	2.40	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 3:30 AM	215.00	3.80	3.00	6.20	3.20	6.20	8.90	3.00	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 3:45 AM	227.00	4.40	3.00	6.20	3.20	6.20	9.90	3.00	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 4:00 AM	222.00	4.40	2.90	6.20	3.30	6.20	9.90	2.90	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 4:15 AM	235.00	3.40	2.70	6.20	3.50	6.20	9.90	2.70	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 4:30 AM	194.00	3.50	2.70	6.20	3.50	6.20	9.90	2.70	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 4:45 AM	239.00	3.90	2.70	6.20	3.50	6.20	9.90	2.70	4.50	0.00	0.00	0.00	0.00					



US Army Corps  
of Engineers®

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
January, 2013

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		
1/11/14 12:45 PM	285.00	7.40	5.00	10.20	5.20	5.40	10.20	3.80	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 1:00 PM	278.00	6.00	4.80	8.80	4.00	5.20	8.80	3.40	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 1:15 PM	277.00	6.00	4.80	8.30	3.50	5.10	8.30	3.30	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 1:30 PM	283.00	7.70	4.60	7.90	3.30	5.60	7.90	3.30	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 1:45 PM	283.00	6.40	4.70	8.90	4.20	6.20	8.90	3.30	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 2:00 PM	271.00	6.90	4.70	8.90	4.20	6.70	8.90	4.50	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 2:15 PM	275.00	8.00	5.20	11.40	6.20	7.50	11.40	5.00	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 2:30 PM	270.00	6.40	5.40	12.70	7.30	8.70	12.70	6.00	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 2:45 PM	274.00	6.40	5.70	15.20	9.50	9.50	15.20	6.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 3:00 PM	284.00	5.10	5.70	15.20	9.50	10.00	15.20	7.60	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 3:15 PM	295.00	8.00	5.70	18.60	12.90	10.30	18.60	8.70	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 3:30 PM	277.00	4.90	5.70	18.60	12.90	10.30	18.60	8.70	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 3:45 PM	280.00	4.70	5.70	18.60	12.90	10.30	18.60	8.70	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 4:00 PM	283.00	6.60	5.70	19.30	13.60	9.80	19.30	9.30	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 4:15 PM	277.00	4.90	6.10	13.10	7.00	8.60	13.10	6.40	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 4:30 PM	279.00	3.40	6.10	10.80	4.70	7.90	10.80	7.30	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 4:45 PM	265.00	6.40	5.10	7.50	2.40	7.50	9.90	5.10	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 5:00 PM	285.00	6.30	6.10	9.90	3.80	7.50	9.90	5.10	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 5:15 PM	296.00	4.70	6.10	8.90	2.80	7.50	8.90	5.10	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 5:30 PM	288.00	8.10	6.10	8.90	2.80	6.60	8.90	5.10	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 5:45 PM	300.00	6.10	6.10	8.10	2.00	6.60	8.10	5.10	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 6:00 PM	290.00	5.60	6.10	8.10	2.00	6.60	8.10	5.10	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 6:15 PM	293.00	6.10	6.10	8.10	2.00	6.60	8.10	5.10	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 6:30 PM	283.00	5.40	6.10	8.10	2.00	6.60	8.10	5.10	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 6:45 PM	262.00	4.40	5.10	6.60	1.50	6.60	8.10	5.10	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 7:00 PM	279.00	5.10	5.90	8.10	2.20	6.60	8.10	5.10	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 7:15 PM	296.00	5.90	5.90	8.10	2.20	6.60	8.10	5.10	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 7:30 PM	283.00	7.20	5.90	7.60	1.70	6.60	7.60	5.10	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 7:45 PM	272.00	8.00	5.90	7.50	1.60	6.60	7.50	3.80	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 8:00 PM	272.00	6.40	5.90	6.70	0.80	6.60	6.70	3.80	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 8:15 PM	282.00	5.90	4.90	6.00	1.10	5.70	6.00	3.80	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 8:30 PM	275.00	5.70	4.70	6.10	1.40	5.70	6.10	3.80	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 8:45 PM	282.00	4.10	3.90	5.40	1.50	5.30	5.40	2.80	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 9:00 PM	302.00	5.60	3.80	5.10	1.30	5.30	5.10	2.50	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 9:15 PM	304.00	3.90	3.80	5.10	1.30	5.30	5.10	2.50	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 9:30 PM	299.00	6.40	3.70	5.10	1.40	5.30	5.10	2.50	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 9:45 PM	299.00	5.40	3.60	5.10	1.50	5.30	5.10	2.30	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 10:00 PM	299.00	3.80	3.80	5.10	1.30	5.30	5.10	2.40	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 10:15 PM	299.00	3.80	3.80	5.10	1.30	5.30	5.10	2.40	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 10:30 PM	294.00	5.60	3.90	5.10	1.20	5.10	5.10	2.40	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 10:45 PM	300.00	4.10	3.90	5.10	1.20	5.10	5.10	2.40	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 11:00 PM	311.00	4.80	3.90	4.70	0.80	5.00	4.70	2.40	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 11:15 PM	309.00	4.60	3.90	4.70	0.80	5.00	4.70	2.30	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 11:30 PM	312.00	5.00	3.90	5.00	1.10	5.30	5.00	2.30	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/14 11:45 PM	280.00	3.60	3.90	5.00	1.10	5.20	5.00	2.30	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 12:00 AM	292.00	4.70	4.50	5.00	0.50	5.20	5.00	2.50	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 12:15 AM	282.00	5.80	4.70	5.00	0.30	5.20	5.00	2.50	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 12:30 AM	300.00	3.30	4.90	5.00	0.10	5.20	5.00	2.90	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 12:45 AM	282.00	5.90	5.20	5.10	0.00	6.30	5.10	2.90	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 1:15 AM	318.00	6.50	5.40	6.10	0.70	6.30	6.10	3.50	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 1:30 AM	270.00	3.40	5.40	6.10	0.70	6.30	6.10	3.50	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 1:45 AM	284.00	4.00	5.20	6.00	0.80	5.70	6.00	2.80	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 2:00 AM	266.00	2.00	2.80	5.70	2.90	5.70	6.00	2.80	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 2:15 AM	279.00	4.30	5.20	4.90	0.00	5.70	4.90	2.80	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 2:30 AM	269.00	4.50	1.70	4.90	3.20	4.90	4.40	1.70	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 2:45 AM	294.00	5.80	3.90	4.40	0.50	4.50	4.40	1.50	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 3:00 AM	268.00	5.00	1.50	4.50	3.00	4.50	4.40	1.50	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 3:15 AM	277.00	5.30	3.90	4.40	0.50	4.10	4.40	1.50	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 3:30 AM	286.00	4.20	3.90	3.20	0.00	3.80	3.20	1.30	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 3:45 AM	282.00	5.80	3.90	3.20	0.00	3.80	3.20	1.40	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 4:00 AM	256.00	6.00	1.50	3.80	2.30	3.80	3.30	1.50	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 4:15 AM	250.00	4.70	2.10	4.30	2.20	4.30	3.70	2.10	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 4:30 AM	259.00	4.50	2.10	4.30	2.20	4.30	3.70	2.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 4:45 AM	255.00	3.60	2.10	4.50	2.40	4.50	4.80	2.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 5:00 AM	261.00	5.50	3.90	9.10	5.20	9.10	6.30	3.90	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 5:15 AM	259.00	6.80	8.20	9.20	1.00	9.20	8.10	8.20	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 5:30 AM	253.00	5.20	8.20	0.00	0.00	0.00	8.40	8.20	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 5:45 AM	252.00	4.10	9.10	9.50	0.40	9.50	8.70	9.10	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 6:00 AM	229.00	4.00	12.90	10.30	0.00	10.30	11.20	12.90	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 6:15 AM	230.00	5.50	15.60	14.80	0.00	14.80	13.80	15.60	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 6:30 AM	241.00	5.00	13.90	14.80	0.90	14.80	11.20	13.90	10.20	0.00								



**US Army Corps  
of Engineers®**

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
January, 2013

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )								Naphthalene (µg/m <sup>3</sup> )							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
1/12/14 2:15 PM	189.00	8.30	6.60	7.20	0.60	7.20	6.30	6.60	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 2:30 PM	198.00	6.60	6.40	6.80	0.40	6.80	5.90	6.40	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 2:45 PM	204.00	8.50	6.20	6.80	0.60	6.80	6.20	6.20	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 3:00 PM	198.00	10.00	6.00	6.80	0.80	6.80	6.20	6.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 3:15 PM	187.00	7.90	6.50	7.30	0.80	7.30	6.50	6.50	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 3:30 PM	214.00	10.20	6.10	7.00	0.90	7.00	6.50	6.10	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 3:45 PM	197.00	6.40	5.80	6.90	1.10	6.90	6.80	5.80	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 4:00 PM	191.00	8.20	6.20	7.00	0.80	7.00	7.20	6.20	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 4:15 PM	177.00	8.00	7.70	5.20	0.00	7.30	7.70	6.80	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 4:30 PM	187.00	6.00	7.30	7.20	0.00	7.20	7.80	7.30	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 4:45 PM	193.00	7.90	7.00	6.70	0.00	6.70	7.30	7.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 5:00 PM	184.00	8.80	6.50	6.50	0.00	6.50	7.10	6.50	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 5:15 PM	193.00	7.40	6.30	6.70	0.40	6.70	7.00	6.30	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 5:30 PM	194.00	8.60	5.80	6.60	0.80	6.60	6.90	5.80	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 5:45 PM	193.00	8.30	5.60	6.00	0.40	6.00	6.40	5.60	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 6:00 PM	198.00	9.30	5.50	6.00	0.50	6.00	6.40	5.50	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 6:15 PM	182.00	10.60	5.10	6.50	1.40	6.50	6.50	5.10	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 6:30 PM	198.00	7.80	5.90	6.60	0.70	6.60	6.50	5.90	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 6:45 PM	206.00	4.60	5.50	7.10	1.60	7.10	6.20	5.50	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 7:00 PM	195.00	7.10	5.00	6.90	1.90	6.90	5.90	5.00	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 7:15 PM	187.00	5.30	4.20	6.40	2.20	6.40	5.60	4.20	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 7:30 PM	210.00	6.50	3.70	5.80	2.10	5.80	5.10	3.70	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 7:45 PM	202.00	7.40	3.50	5.30	1.80	5.30	4.80	3.50	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 8:00 PM	199.00	9.30	3.20	5.20	2.00	5.20	4.80	3.20	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 8:15 PM	207.00	5.90	3.10	5.10	2.00	5.10	4.40	3.10	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 8:30 PM	196.00	6.40	2.80	4.50	1.70	4.50	4.20	2.80	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 8:45 PM	196.00	6.60	2.70	4.60	1.90	4.60	4.10	2.70	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 9:00 PM	219.00	4.80	2.80	4.50	1.70	4.50	3.90	2.80	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 9:15 PM	211.00	6.80	2.80	4.30	1.50	4.30	3.80	2.80	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 9:30 PM	225.00	8.30	2.60	4.30	1.70	4.30	3.80	2.60	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 9:45 PM	220.00	6.90	2.30	3.90	1.60	3.90	3.60	2.30	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 10:00 PM	212.00	9.30	1.90	3.50	1.60	3.50	3.30	1.90	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 10:15 PM	216.00	10.40	1.90	3.40	1.50	3.40	3.20	1.90	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 10:30 PM	191.00	9.90	1.70	3.20	1.50	3.20	3.10	1.70	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 10:45 PM	199.00	8.40	1.80	3.30	1.50	3.30	3.10	1.80	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 11:00 PM	197.00	10.40	1.70	3.30	1.60	3.30	3.30	1.70	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 11:15 PM	219.00	8.90	1.80	3.20	1.40	3.20	3.00	1.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 11:30 PM	211.00	8.60	1.70	3.30	1.60	3.30	2.90	1.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/14 11:45 PM	210.00	8.50	1.60	3.20	1.60	3.20	2.90	1.60	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 12:00 AM	212.00	9.20	1.70	3.10	1.40	3.10	2.90	1.70	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 12:15 AM	220.00	10.20	1.60	3.10	1.50	3.10	3.00	1.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 12:30 AM	213.00	7.40	1.60	3.00	1.40	3.00	2.80	1.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 12:45 AM	226.00	8.20	1.60	3.00	1.40	3.00	2.80	1.60	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 1:00 AM	215.00	8.20	1.50	3.10	1.60	3.10	2.90	1.50	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 1:15 AM	229.00	8.90	1.40	2.90	1.50	2.90	3.00	1.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 1:30 AM	210.00	6.30	1.60	2.80	1.20	2.80	3.00	1.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 1:45 AM	221.00	7.80	1.60	3.00	1.40	3.00	2.80	1.60	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 2:00 AM	217.00	6.00	1.70	3.10	1.40	3.10	2.90	1.70	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 2:15 AM	223.00	8.90	1.60	3.10	1.50	3.10	2.80	1.60	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 2:30 AM	209.00	6.30	1.60	2.90	1.30	2.90	2.90	1.60	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 2:45 AM	203.00	6.60	1.60	3.20	1.60	3.20	3.00	1.60	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 3:00 AM	230.00	6.90	1.70	3.20	1.50	3.20	3.00	1.70	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 3:15 AM	215.00	7.40	1.70	3.30	1.60	3.30	3.10	1.70	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 3:30 AM	202.00	8.60	1.70	3.10	1.40	3.10	3.00	1.70	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 3:45 AM	224.00	9.20	1.80	3.10	1.30	3.10	2.90	1.80	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 4:00 AM	222.00	6.20	1.80	3.20	1.40	3.20	2.80	1.80	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 4:15 AM	222.00	5.30	1.90	3.10	1.20	3.10	2.90	1.90	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 4:30 AM	231.00	6.40	2.10	3.20	1.10	3.20	3.00	2.10	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 4:45 AM	224.00	7.10	1.90	3.20	1.30	3.20	3.00	1.90	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 5:00 AM	229.00	5.90	2.10	3.30	1.20	3.30	2.80	2.10	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 5:15 AM	223.00	5.50	2.10	3.30	1.20	3.30	3.00	2.10	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 5:30 AM	223.00	6.70	2.10	3.30	1.20	3.30	3.10	2.10	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 5:45 AM	225.00	4.40	2.30	3.20	0.90	3.20	3.80	2.30	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 6:00 AM	228.00	3.70	2.40	3.30	0.90	3.30	3.40	2.40	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 6:15 AM	218.00	5.30	2.50	3.80	1.30	3.80	3.40	2.50	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 6:30 AM	215.00	4.00	2.80	3.90	1.10	3.90	3.40	2.80	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 6:45 AM	216.00	4.00	2.50	3.60	1.10	3.60	3.60	2.50	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 7:00 AM	206.00	6.20	2.50	3.80	1.30	3.80	3.30	2.50	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 7:15 AM	199.00	5.90	2.70	3.80	1.10	3.80	3.70	2.70	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 7:30 AM	213.00	4.30	3.00	4.00	1.00	4.00	3.50	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/13/14 7:45 AM	208.00	4.70	3.20	4.40	1.20	4.40	3.50	3.20	3.10	0.00	0.00	0.00	0					



**US Army Corps  
of Engineers®**

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
January, 2013

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )							Naphthalene (µg/m <sup>3</sup> )						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
1/13/14 3:30 PM	247.00	6.00	5.60	5.80	0.20	5.80	5.90	5.60	6.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 3:45 PM	258.00	8.60	4.80	5.50	0.70	5.50	5.80	4.80	6.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 4:00 PM	282.00	5.90	7.80	6.30	0.00	5.70	6.30	5.50	7.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 4:15 PM	272.00	5.80	8.30	7.20	0.00	5.80	7.20	6.10	8.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 4:30 PM	299.00	7.00	9.10	7.90	0.00	6.70	7.90	7.20	9.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 4:45 PM	281.00	5.00	10.00	7.90	0.00	6.70	7.90	8.20	10.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 5:00 PM	270.00	6.30	9.70	8.70	0.00	7.80	8.70	8.40	9.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 5:15 PM	276.00	6.30	8.50	8.80	0.30	7.80	8.80	8.20	8.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 5:30 PM	276.00	6.50	8.20	8.80	0.60	7.90	8.80	8.60	8.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 5:45 PM	280.00	5.10	8.10	8.90	0.80	7.80	8.90	9.10	8.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 6:00 PM	276.00	4.90	8.40	10.20	1.80	8.10	10.20	9.40	8.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 6:15 PM	271.00	3.70	8.50	9.90	1.40	8.90	9.90	10.50	8.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 6:30 PM	255.00	5.10	11.00	8.90	0.00	8.90	11.00	11.00	8.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 6:45 PM	258.00	6.10	10.50	9.10	0.00	9.10	10.30	10.50	7.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 7:00 PM	295.00	5.70	7.70	11.80	4.10	9.30	11.80	14.30	7.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 7:15 PM	283.00	5.00	8.40	13.50	5.10	11.60	13.50	16.10	8.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 7:30 PM	291.00	5.90	9.10	15.40	6.30	13.30	15.40	18.60	9.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 7:45 PM	279.00	5.60	10.20	16.00	5.80	15.00	16.00	20.40	10.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 8:00 PM	264.00	4.10	23.80	16.70	0.00	16.70	19.10	23.80	12.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 8:15 PM	289.00	3.90	13.80	20.30	6.50	18.00	20.30	25.90	13.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 8:30 PM	254.00	2.90	25.30	18.90	0.00	18.90	21.00	25.30	15.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 8:45 PM	263.00	3.00	27.40	19.60	0.00	19.60	22.40	27.40	16.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 9:00 PM	288.00	5.00	18.40	23.40	5.00	20.80	23.40	28.90	18.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 9:15 PM	264.00	3.30	29.00	21.20	0.00	21.20	23.60	29.00	19.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 9:30 PM	276.00	4.00	19.40	24.10	4.70	22.10	24.10	28.60	19.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 9:45 PM	284.00	3.70	17.00	23.10	6.10	19.60	23.10	26.60	17.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 10:00 PM	268.00	3.30	26.20	18.90	0.00	18.90	22.50	26.20	15.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 10:15 PM	273.00	3.40	15.20	21.40	6.20	18.60	21.40	24.50	15.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 10:30 PM	270.00	2.90	15.30	20.70	5.40	18.20	20.70	24.00	15.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 10:45 PM	268.00	3.30	23.90	18.00	0.00	18.00	20.80	23.90	15.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 11:00 PM	258.00	3.20	24.70	18.30	0.00	18.30	21.50	24.70	16.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 11:15 PM	266.00	4.00	24.30	18.20	0.00	18.20	20.60	24.30	16.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 11:30 PM	281.00	4.60	16.30	19.90	3.60	17.80	19.90	22.40	16.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/13/14 11:45 PM	272.00	5.30	16.00	18.50	2.50	16.20	18.50	20.10	16.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 12:00 AM	261.00	3.60	17.70	14.10	0.00	14.10	16.70	17.70	14.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 12:15 AM	259.00	3.60	16.90	14.80	0.00	14.80	15.50	16.90	14.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 12:30 AM	265.00	2.90	16.20	14.70	0.00	14.70	15.10	16.20	14.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 12:45 AM	262.00	3.50	16.20	13.70	0.00	13.70	14.70	16.20	13.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 1:00 AM	257.00	1.90	16.50	13.70	0.00	13.70	15.30	16.50	14.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 1:15 AM	263.00	1.30	17.20	13.30	0.00	13.30	15.40	17.20	13.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 1:30 AM	247.00	1.90	15.90	14.20	0.00	14.20	14.40	15.90	13.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 1:45 AM	270.00	2.10	14.30	15.30	1.00	14.30	15.30	18.30	14.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 2:00 AM	224.00	1.20	18.10	14.70	0.00	14.70	15.10	18.10	14.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 2:15 AM	226.00	2.10	18.70	15.50	0.00	15.50	15.70	18.70	13.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 2:30 AM	267.00	1.70	20.30	15.90	0.00	15.90	16.40	20.30	13.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 2:45 AM	230.00	1.40	20.50	16.80	0.00	16.80	17.40	20.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 3:00 AM	231.00	1.40	22.50	17.30	0.00	17.30	17.20	22.50	14.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 3:15 AM	223.00	0.90	21.80	18.20	0.00	18.20	17.00	21.80	15.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 3:30 AM	216.00	1.20	22.90	18.50	0.00	18.50	18.00	22.90	14.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 3:45 AM	173.00	1.10	17.70	14.10	0.00	18.70	17.70	22.60	14.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 4:00 AM	195.00	1.50	23.30	18.90	0.00	18.90	17.90	23.30	14.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 4:15 AM	184.00	1.90	23.90	19.50	0.00	19.50	18.60	23.90	14.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 4:30 AM	200.00	2.00	29.30	21.90	0.00	21.90	18.60	29.30	15.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 4:45 AM	186.00	2.00	28.70	21.60	0.00	21.60	20.30	28.70	17.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 5:00 AM	169.00	2.70	25.40	18.00	0.00	30.70	25.40	32.50	18.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 5:15 AM	194.00	2.60	30.70	26.90	0.00	26.90	22.90	30.70	19.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 5:30 AM	200.00	2.50	26.50	23.50	0.00	23.50	21.10	26.50	15.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 5:45 AM	198.00	3.20	25.60	22.30	0.00	22.30	20.50	25.60	14.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 6:00 AM	182.00	2.90	23.70	20.70	0.00	20.70	19.80	23.70	13.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 6:15 AM	197.00	3.50	23.20	22.20	0.00	22.20	20.50	23.20	13.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 6:30 AM	187.00	3.30	23.80	21.70	0.00	21.70	20.40	23.80	13.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 6:45 AM	174.00	4.10	19.90	13.40	0.00	21.20	19.90	23.70	13.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 7:00 AM	182.00	4.30	22.60	21.80	0.00	21.80	20.50	22.60	13.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 7:15 AM	158.00	4.30	19.80	12.70	0.00	21.80	19.80	22.60	12.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 7:30 AM	170.00	4.50	18.60	12.00	0.00	21.60	18.60	21.90	12.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 7:45 AM	176.00	2.90	18.80	11.60	0.00	19.70	18.80	21.30	11.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 8:00 AM	155.00	2.60	18.70	11.30	0.00	20.30	18.70	21.10	11.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 8:15 AM	182.00	4.10	22.00	20.40	0.00	20.40	18.60	22.00	11.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 8:30 AM	170.00	4.10	17.80	11.60	0.00	19.30	17.80	21.20	11.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 8:45 AM	178.00	4.10	17.00	11.10	0.00	19.00	17.00	20.50	11.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 9:00 AM	174.00	4.50	16.00	10.40	0.00	19.70	16.00	18.80	10.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 9:15 AM	166.00	5.50	14.10	9.60	0.00	0.00	14.10	15.90	9.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/14/14 9:30 AM	173.00	4.70	12.70	8.90	0.00	15.00	12.70	13.30								



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )							Naphthalene (µg/m <sup>3</sup> )						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
1/14/14 4:45 PM	277.00	8.90	10.30	10.20	0.00	9.40	10.20	8.70	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 5:00 PM	263.00	9.90	7.90	8.30	0.40	8.30	10.00	7.90	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 5:15 PM	269.00	7.50	6.20	0.00	0.00	0.00	8.30	6.20	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 5:30 PM	259.00	13.40	5.60	5.80	0.20	5.80	7.40	5.60	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 5:45 PM	282.00	9.20	7.60	7.40	0.00	5.60	7.40	5.20	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 6:00 PM	278.00	6.40	8.10	7.70	0.00	6.40	7.70	5.70	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 6:15 PM	253.00	10.00	5.70	6.40	0.70	6.40	8.10	5.70	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 6:30 PM	280.00	10.80	9.50	8.30	0.00	8.00	8.30	6.40	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 6:45 PM	286.00	11.30	9.50	8.50	0.00	7.90	8.50	6.80	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 7:00 PM	279.00	10.90	9.50	8.30	0.00	8.00	8.30	6.90	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 7:15 PM	268.00	6.60	6.50	7.80	1.30	7.80	8.20	6.50	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 7:30 PM	284.00	8.80	9.30	7.90	0.00	7.40	7.90	6.00	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 7:45 PM	276.00	6.70	8.50	9.00	0.50	7.20	9.00	5.80	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 8:00 PM	276.00	9.60	8.80	7.80	0.00	7.60	7.80	6.90	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 8:15 PM	289.00	7.90	8.70	7.40	0.00	0.00	7.40	5.90	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 8:30 PM	276.00	8.30	8.20	8.00	0.00	7.70	8.00	7.50	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 8:45 PM	294.00	10.60	8.30	6.80	0.00	8.50	6.80	5.60	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 9:00 PM	280.00	10.20	8.20	7.20	0.00	7.40	7.20	5.90	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 9:15 PM	287.00	10.40	8.20	7.20	0.00	0.00	7.20	6.00	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 9:30 PM	256.00	10.50	5.80	8.00	2.20	8.00	6.90	5.80	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 9:45 PM	273.00	9.00	8.20	7.10	0.00	8.60	7.10	6.30	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 10:00 PM	288.00	6.50	8.40	6.90	0.00	0.00	6.90	6.00	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 10:15 PM	285.00	6.20	8.90	7.60	0.00	9.00	7.60	6.20	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 10:30 PM	299.00	7.80	10.40	9.20	0.00	10.00	9.20	7.50	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 10:45 PM	296.00	6.70	8.60	7.40	0.00	8.60	7.40	6.10	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 11:00 PM	290.00	9.90	8.30	7.60	0.00	9.40	7.60	5.90	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 11:15 PM	292.00	8.30	7.90	7.60	0.00	8.20	7.60	5.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 11:30 PM	282.00	6.70	8.20	7.40	0.00	8.00	7.40	5.60	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/14 11:45 PM	300.00	7.60	8.30	7.10	0.00	8.00	7.10	5.30	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 12:00 AM	278.00	8.00	8.80	7.40	0.00	9.80	7.40	5.50	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 12:15 AM	300.00	5.00	8.90	8.30	0.00	10.00	8.30	5.50	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 12:30 AM	301.00	5.30	9.10	7.70	0.00	9.30	7.70	6.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 12:45 AM	303.00	6.20	7.90	7.80	0.00	8.70	7.80	5.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 1:00 AM	290.00	7.30	8.90	8.10	0.00	8.40	8.10	6.00	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 1:15 AM	291.00	6.80	7.20	7.80	0.60	9.20	7.80	5.90	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 1:30 AM	308.00	4.80	6.90	7.40	0.50	8.70	7.40	5.40	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 1:45 AM	288.00	5.50	6.80	7.00	0.20	8.70	7.00	5.70	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 2:00 AM	292.00	5.20	6.80	7.30	0.50	8.60	7.30	5.90	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 2:15 AM	293.00	4.40	6.30	7.70	1.40	9.00	7.70	6.30	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 2:30 AM	278.00	4.30	6.10	7.50	1.40	9.20	7.50	6.10	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 2:45 AM	299.00	4.70	5.20	8.20	3.00	8.50	8.20	5.50	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 3:00 AM	307.00	4.00	4.70	7.30	2.60	0.00	7.30	5.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 3:15 AM	318.00	7.30	4.70	6.30	1.60	8.70	6.30	4.50	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 3:30 AM	321.00	7.60	4.40	7.60	3.20	6.60	7.60	4.30	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 3:45 AM	318.00	7.30	4.90	9.10	4.20	6.90	9.10	4.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 4:00 AM	314.00	6.50	5.50	7.10	1.60	7.70	7.10	4.10	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 4:15 AM	331.00	5.80	5.10	6.40	1.30	6.80	6.40	3.90	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 4:30 AM	324.00	7.40	5.70	8.30	2.60	6.70	8.30	4.30	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 4:45 AM	310.00	7.10	5.70	7.50	1.80	6.70	7.50	3.90	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 5:00 AM	306.00	5.40	5.90	6.40	0.50	6.60	6.40	4.00	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 5:15 AM	317.00	6.60	5.70	6.50	0.80	5.90	6.50	3.70	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 5:30 AM	306.00	6.00	5.90	7.00	1.10	5.80	7.00	3.20	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 5:45 AM	344.00	4.40	6.20	7.50	1.30	6.50	7.50	3.70	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 6:00 AM	330.00	8.10	6.20	7.70	1.50	5.90	7.70	3.60	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 6:15 AM	332.00	6.30	5.80	7.30	1.50	0.00	7.30	3.20	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 6:30 AM	334.00	6.90	6.00	7.00	1.00	5.90	7.00	3.70	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 6:45 AM	319.00	5.90	6.50	7.50	1.00	5.80	7.50	3.50	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 7:00 AM	322.00	7.10	6.70	7.80	1.10	0.00	7.80	3.40	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 7:15 AM	319.00	4.80	7.00	7.60	0.60	6.40	7.60	5.20	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 7:30 AM	324.00	5.30	6.90	7.60	0.70	6.00	7.60	4.20	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 7:45 AM	337.00	4.60	7.30	7.70	0.40	6.40	7.70	4.50	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 8:00 AM	346.00	4.20	7.40	8.30	0.90	6.00	8.30	5.40	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 8:15 AM	330.00	5.70	6.80	7.80	1.00	5.70	7.80	5.20	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 8:30 AM	306.00	4.90	10.00	8.50	0.00	6.20	8.50	6.20	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 8:45 AM	301.00	6.00	8.30	9.00	0.70	7.70	9.00	7.20	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 9:00 AM	305.00	4.50	8.70	9.20	0.50	9.20	9.20	7.10	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 9:15 AM	314.00	4.10	9.00	8.80	0.00	8.90	8.80	6.80	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 9:30 AM	313.00	4.70	9.10	9.40	0.30	9.20	9.40	7.40	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 9:45 AM	316.00	5.00	9.10	9.40	0.30	8.90	9.40	6.60	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 10:00 AM	337.00	2.40	9.00	9.40	0.40	9.20	9.40	7.20	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/14 10:15 AM	315.00	3.70	8.30	9.00	0.70	8.70	9.00	7.20	8.30	0.00	0.00					



US Army Corps  
of Engineers®

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
January, 2013

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )								Naphthalene (µg/m <sup>3</sup> )							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
1/15/14 6:00 PM	250.00	4.30	16.00	13.60	0.00	13.60	14.50	16.00	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/14 6:15 PM	244.00	4.10	16.70	14.00	0.00	14.00	15.20	16.70	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/14 6:30 PM	251.00	4.40	18.60	14.30	0.00	14.30	16.00	18.60	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/14 6:45 PM	248.00	4.40	19.00	14.00	0.00	16.00	16.50	19.00	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/14 7:00 PM	243.00	3.70	19.40	16.80	0.00	16.80	16.30	19.40	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/14 7:15 PM	245.00	3.40	19.90	17.20	0.00	17.20	15.90	19.90	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/14 7:30 PM	237.00	4.00	19.20	16.70	0.00	16.70	15.10	19.20	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/14 7:45 PM	240.00	3.80	18.90	16.80	0.00	16.80	15.70	18.90	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/14 8:00 PM	215.00	2.70	18.90	16.70	0.00	16.70	15.30	18.90	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/14 8:15 PM	228.00	5.20	17.30	15.90	0.00	15.90	15.20	17.30	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/14 8:30 PM	220.00	3.90	16.70	15.30	0.00	15.30	14.40	16.70	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/14 8:45 PM	240.00	4.30	16.70	15.40	0.00	15.40	14.90	16.70	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/14 9:00 PM	215.00	3.00	17.00	15.30	0.00	15.30	13.90	17.00	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/14 9:15 PM	197.00	2.60	16.70	15.00	0.00	15.00	14.10	16.70	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/14 9:30 PM	198.00	3.10	23.10	18.70	0.00	18.70	17.00	23.10	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/14 9:45 PM	193.00	4.10	21.00	17.00	0.00	17.00	15.90	21.00	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/14 10:00 PM	202.00	3.00	18.60	15.60	0.00	15.60	15.10	18.60	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/14 10:15 PM	208.00	2.60	17.20	15.60	0.00	15.60	14.60	17.20	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/14 10:30 PM	192.00	3.80	18.80	16.60	0.00	16.60	15.60	18.80	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/14 10:45 PM	204.00	5.90	19.60	17.60	0.00	17.60	16.20	19.60	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/14 11:00 PM	196.00	4.90	18.50	16.50	0.00	16.50	15.50	18.50	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/14 11:15 PM	217.00	3.10	18.80	16.10	0.00	16.10	14.90	18.80	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/14 11:30 PM	199.00	6.70	19.30	16.50	0.00	16.50	14.40	19.30	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/14 11:45 PM	206.00	5.10	17.00	15.20	0.00	15.20	14.70	17.00	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 12:00 AM	202.00	5.60	15.20	14.50	0.00	14.50	13.60	15.20	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 12:15 AM	204.00	5.50	14.90	14.60	0.00	14.60	13.40	14.90	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 12:30 AM	207.00	4.80	14.20	13.60	0.00	13.60	13.00	14.20	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 12:45 AM	200.00	9.40	14.30	13.60	0.00	13.60	13.10	14.30	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 1:00 AM	199.00	5.80	13.30	13.20	0.00	13.20	12.60	13.30	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 1:15 AM	216.00	5.50	14.00	13.20	0.00	13.20	12.50	14.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 1:30 AM	203.00	5.20	13.90	13.30	0.00	13.30	12.50	13.90	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 1:45 AM	207.00	6.10	14.00	13.40	0.00	13.40	12.60	14.00	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 2:00 AM	206.00	6.20	14.90	13.40	0.00	13.40	12.50	14.90	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 2:15 AM	206.00	8.00	20.60	12.80	0.00	12.80	12.50	20.60	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 2:30 AM	215.00	5.80	17.20	14.10	0.00	14.10	13.20	17.20	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 2:45 AM	202.00	7.60	14.20	12.50	0.00	12.50	11.70	14.20	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 3:00 AM	212.00	8.30	15.40	11.80	0.00	11.80	12.00	15.40	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 3:15 AM	207.00	7.90	15.00	10.70	0.00	10.70	11.70	15.00	30.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 3:30 AM	193.00	7.30	16.00	11.20	0.00	11.20	11.20	16.00	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 3:45 AM	225.00	7.60	16.50	12.50	0.00	12.50	12.60	16.50	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 4:00 AM	209.00	6.80	14.60	11.30	0.00	11.30	14.30	14.60	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 4:15 AM	214.00	7.50	37.60	14.50	0.00	14.50	20.80	37.60	28.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 4:30 AM	209.00	7.00	20.80	13.90	0.00	13.90	16.90	20.80	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 4:45 AM	190.00	6.40	19.30	12.90	0.00	12.90	14.40	19.30	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 5:00 AM	203.00	6.60	17.10	12.50	0.00	12.50	14.20	17.10	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 5:15 AM	204.00	7.90	15.30	11.90	0.00	11.90	13.70	15.30	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 5:30 AM	207.00	12.70	16.90	11.70	0.00	11.70	13.70	16.90	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 5:45 AM	199.00	9.70	17.80	11.50	0.00	11.50	15.20	17.80	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 6:00 AM	217.00	8.30	19.80	10.90	0.00	10.90	13.20	19.80	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 6:15 AM	211.00	10.10	17.60	10.70	0.00	10.70	12.90	17.60	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 6:30 AM	213.00	8.00	14.80	12.40	0.00	12.40	13.60	14.80	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 6:45 AM	206.00	11.20	21.80	11.60	0.00	11.60	16.50	21.80	26.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 7:00 AM	209.00	5.00	28.90	0.00	0.00	0.00	17.90	28.90	28.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 7:15 AM	217.00	6.90	18.70	13.30	0.00	13.30	17.10	18.70	24.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 7:30 AM	200.00	7.00	18.60	12.30	0.00	12.30	16.10	18.60	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 7:45 AM	214.00	8.20	17.80	12.10	0.00	12.10	16.10	17.80	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 8:00 AM	208.00	9.70	15.90	12.90	0.00	12.90	15.60	15.90	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 8:15 AM	202.00	7.30	17.00	13.00	0.00	13.00	16.00	17.00	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 8:30 AM	192.00	9.10	21.30	12.80	0.00	12.80	16.40	21.30	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 8:45 AM	216.00	5.20	15.80	12.40	0.00	12.40	15.90	15.80	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 9:00 AM	212.00	7.50	17.30	12.50	0.00	12.50	16.10	17.30	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 9:15 AM	217.00	5.70	15.30	12.00	0.00	12.00	15.00	15.30	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 9:30 AM	200.00	8.20	18.30	12.20	0.00	12.20	16.50	18.30	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 9:45 AM	215.00	5.90	18.30	13.30	0.00	13.30	16.70	18.30	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 10:00 AM	198.00	6.90	15.60	12.60	0.00	12.60	15.20	15.60	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 10:15 AM	204.00	6.40	15.50	12.20	0.00	12.20	15.20	15.50	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 10:30 AM	205.00	6.30	17.20	12.40	0.00	12.40	15.50	17.20	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 10:45 AM	216.00	8.00	17.00	12.00	0.00	12.00	15.10	17.00	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/14 11:00 AM	206.00	8.60	15.70	12.50	0.00</													



US Army Corps  
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Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
January, 2013

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )							Naphthalene (µg/m <sup>3</sup> )						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
1/16/14 7:15 PM	285.00	6.90	9.30	11.30	2.00	7.10	11.30	8.30	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/14 7:30 PM	293.00	8.50	9.60	9.80	0.20	6.50	9.80	6.60	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/14 7:45 PM	288.00	7.20	10.00	10.30	0.30	6.30	10.30	6.30	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/14 8:00 PM	264.00	5.30	7.30	6.90	0.00	6.90	10.40	7.30	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/14 8:15 PM	261.00	8.40	6.80	7.20	0.40	7.20	10.90	6.80	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/14 8:30 PM	274.00	8.50	11.50	11.50	0.00	7.70	11.50	7.30	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/14 8:45 PM	293.00	6.70	11.40	11.40	0.00	7.50	11.40	8.10	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/14 9:00 PM	269.00	4.90	7.80	7.60	0.00	7.60	11.50	7.80	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/14 9:15 PM	265.00	5.30	7.10	0.00	0.00	0.00	11.00	7.10	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/14 9:30 PM	284.00	5.40	11.80	10.90	0.00	7.20	10.90	7.80	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/14 9:45 PM	290.00	5.20	11.40	10.70	0.00	6.70	10.70	6.50	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/14 10:00 PM	296.00	5.50	11.30	10.50	0.00	7.00	10.50	6.60	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/14 10:15 PM	263.00	4.80	7.20	7.30	0.10	7.30	10.50	7.20	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/14 10:30 PM	264.00	5.10	7.30	7.50	0.20	7.50	10.70	7.30	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/14 10:45 PM	301.00	5.40	11.30	10.80	0.00	7.80	10.80	7.40	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/14 11:00 PM	296.00	3.60	11.00	11.20	0.20	7.90	11.20	7.50	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/14 11:15 PM	275.00	4.40	11.20	11.50	0.30	7.70	11.50	9.00	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/14 11:30 PM	286.00	4.80	11.50	11.10	0.00	7.80	11.10	8.10	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/14 11:45 PM	276.00	7.70	11.40	10.90	0.00	8.20	10.90	7.80	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 12:00 AM	293.00	5.90	11.20	10.80	0.00	8.70	10.80	9.60	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 12:15 AM	295.00	3.70	11.50	11.00	0.00	9.00	11.00	10.80	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 12:30 AM	281.00	3.60	11.60	11.50	0.00	9.30	11.50	9.30	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 12:45 AM	301.00	4.40	11.40	11.70	0.30	9.40	11.70	15.30	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 1:00 AM	307.00	6.20	11.50	11.50	0.00	9.10	11.50	9.60	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 1:15 AM	270.00	4.50	11.00	11.30	0.30	9.30	11.30	9.50	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 1:30 AM	279.00	4.20	10.40	10.80	0.40	9.20	10.80	9.20	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 1:45 AM	286.00	6.40	11.00	11.20	0.20	10.20	11.20	9.60	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 2:00 AM	302.00	5.90	11.00	11.30	0.30	9.70	11.30	10.40	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 2:15 AM	312.00	5.50	10.30	11.20	0.90	9.70	11.20	10.10	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 2:30 AM	287.00	4.00	10.70	11.30	0.60	10.00	11.30	10.30	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 2:45 AM	310.00	5.40	10.60	11.30	0.70	10.30	11.30	10.60	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 3:00 AM	312.00	5.80	10.50	11.50	1.00	10.40	11.50	11.00	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 3:15 AM	295.00	4.10	11.00	11.80	0.80	10.70	11.80	11.40	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 3:30 AM	286.00	4.00	11.40	11.90	0.50	10.90	11.90	12.10	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 3:45 AM	312.00	4.30	11.10	12.80	1.70	11.60	12.80	12.80	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 4:00 AM	295.00	3.80	11.30	13.40	2.10	11.50	13.40	13.20	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 4:15 AM	293.00	4.30	11.80	14.00	2.20	12.30	14.00	13.80	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 4:30 AM	288.00	5.90	12.10	14.10	2.00	12.80	14.10	14.10	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 4:45 AM	276.00	5.70	12.30	14.20	1.90	12.50	14.20	14.30	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 5:00 AM	300.00	3.00	11.90	14.20	2.30	12.30	14.20	13.60	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 5:15 AM	294.00	4.50	11.00	13.20	2.20	11.30	13.20	13.60	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 5:30 AM	304.00	3.80	14.00	14.00	0.00	11.50	14.00	13.30	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 5:45 AM	303.00	4.70	12.00	13.40	1.40	12.20	13.40	13.90	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 6:00 AM	276.00	6.00	12.40	13.00	0.60	12.10	13.00	13.30	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 6:15 AM	294.00	3.10	11.50	12.50	1.00	12.00	12.50	12.70	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 6:30 AM	307.00	4.30	11.40	13.80	2.40	11.60	13.80	12.30	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 6:45 AM	273.00	3.70	11.40	12.70	1.30	12.30	12.70	13.90	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 7:00 AM	274.00	4.60	11.10	12.60	1.50	12.80	12.60	13.00	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 7:15 AM	293.00	2.70	10.70	11.80	1.10	12.10	11.80	11.90	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 7:30 AM	277.00	4.20	10.50	11.40	0.90	10.80	11.40	11.40	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 7:45 AM	295.00	5.30	10.90	11.80	0.90	11.40	11.80	11.10	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 8:00 AM	279.00	3.00	10.80	11.70	0.90	0.00	11.70	11.70	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 8:15 AM	290.00	4.10	10.70	12.30	1.60	12.10	12.30	12.80	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 8:30 AM	292.00	4.60	10.70	12.60	1.90	11.90	12.60	13.60	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 8:45 AM	267.00	4.20	14.10	0.00	0.00	0.00	13.00	14.10	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 9:00 AM	264.00	4.80	16.50	14.50	0.00	14.50	14.10	16.50	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 9:15 AM	288.00	2.80	11.40	14.40	3.00	13.60	14.40	15.30	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 9:30 AM	268.00	5.50	15.70	13.90	0.00	13.90	14.70	15.70	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 9:45 AM	252.00	4.80	13.40	12.90	0.00	12.90	13.60	13.40	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 10:00 AM	280.00	4.40	11.10	13.30	2.20	0.00	13.30	13.30	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 10:15 AM	287.00	4.10	10.30	12.40	2.10	12.10	12.40	13.30	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 10:30 AM	274.00	4.30	10.20	11.40	1.20	11.20	11.40	11.20	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 10:45 AM	248.00	5.00	11.70	11.80	0.10	11.80	11.20	11.70	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 11:00 AM	273.00	4.40	10.10	10.70	0.60	10.30	10.70	10.50	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 11:15 AM	274.00	6.10	10.40	12.20	1.80	11.40	12.20	12.30	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 11:30 AM	248.00	4.10	13.30	11.60	0.00	11.60	12.20	13.30	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 11:45 AM	242.00	4.70	15.10	12.60	0.00	12.60	14.60	15.10	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 12:00 PM	267.00	5.70	15.90	14.00	0.00	14.00	14.10	15.90	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/14 12:15 PM	267.00	5.90	15.40	13.60	0.00	13.60	15.60	15.40	12.90	0.00	0.00	0.00				





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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )								Naphthalene (µg/m <sup>3</sup> )							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
1/17/14 8:30 PM	258.00	6.70	13.30	12.10	0.00	12.10	14.10	13.30	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/14 8:45 PM	268.00	6.60	14.30	12.20	0.00	12.20	15.70	14.30	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/14 9:00 PM	263.00	4.60	14.90	13.30	0.00	13.30	15.10	14.90	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/14 9:15 PM	254.00	4.30	15.10	13.50	0.00	13.50	15.50	15.10	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/14 9:30 PM	261.00	5.70	14.10	13.00	0.00	13.00	14.60	14.10	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/14 9:45 PM	272.00	4.30	12.00	14.30	2.30	12.70	14.30	13.90	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/14 10:00 PM	263.00	4.20	13.90	12.90	0.00	12.90	15.10	13.90	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/14 10:15 PM	267.00	4.60	13.70	13.00	0.00	13.00	14.60	13.70	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/14 10:30 PM	271.00	5.00	12.70	14.50	1.80	0.00	14.50	15.10	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/14 10:45 PM	248.00	5.00	13.50	12.50	0.00	12.50	14.50	13.50	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/14 11:00 PM	279.00	4.10	13.40	13.80	0.40	12.00	13.80	12.90	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/14 11:15 PM	267.00	5.90	12.80	11.80	0.00	11.80	13.70	12.80	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/14 11:30 PM	256.00	6.30	13.20	11.70	0.00	11.70	13.50	13.20	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/14 11:45 PM	279.00	3.90	13.20	14.10	0.90	11.50	14.10	11.80	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 12:00 AM	260.00	5.20	12.20	11.40	0.00	11.40	13.40	12.20	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 12:15 AM	271.00	4.90	12.60	13.20	0.60	11.10	13.20	11.60	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 12:30 AM	239.00	4.00	12.00	11.10	0.00	11.10	13.50	12.00	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 12:45 AM	262.00	5.50	11.30	11.20	0.00	11.20	13.00	11.30	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 1:00 AM	283.00	5.70	12.00	12.90	0.90	11.10	12.90	11.70	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 1:15 AM	260.00	5.70	11.40	0.00	0.00	0.00	12.80	11.40	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 1:30 AM	290.00	4.80	12.70	12.80	0.10	11.00	12.80	11.30	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 1:45 AM	275.00	3.80	12.50	12.40	0.00	10.90	12.40	11.30	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 2:00 AM	276.00	3.30	12.20	12.70	0.50	10.80	12.70	10.90	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 2:15 AM	273.00	3.90	12.20	12.50	0.30	10.90	12.50	11.30	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 2:30 AM	257.00	5.10	11.70	10.90	0.00	10.90	12.30	11.70	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 2:45 AM	264.00	4.60	11.90	11.00	0.00	11.00	12.50	11.90	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 3:00 AM	217.00	2.50	12.20	11.20	0.00	11.20	13.00	12.20	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 3:15 AM	219.00	1.50	11.90	11.30	0.00	11.30	12.80	11.90	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 3:30 AM	253.00	2.40	12.50	11.40	0.00	11.40	13.00	12.50	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 3:45 AM	237.00	1.80	13.10	11.80	0.00	11.80	12.90	13.10	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 4:00 AM	228.00	3.60	13.20	12.00	0.00	12.00	13.60	13.20	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 4:15 AM	251.00	4.20	15.90	13.50	0.00	13.50	14.50	15.90	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 4:30 AM	253.00	5.80	14.60	13.70	0.00	13.70	13.90	14.60	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 4:45 AM	243.00	5.80	13.90	12.80	0.00	12.80	13.70	13.90	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 5:00 AM	219.00	4.90	13.80	13.90	0.10	13.90	13.10	13.80	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 5:15 AM	238.00	4.40	12.70	12.00	0.00	12.00	12.80	12.70	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 5:30 AM	228.00	3.80	13.10	12.30	0.00	12.30	13.30	13.10	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 5:45 AM	227.00	3.70	13.30	12.50	0.00	12.50	13.50	13.30	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 6:00 AM	205.00	4.50	13.00	12.40	0.00	12.40	13.70	13.00	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 6:15 AM	230.00	3.80	13.40	12.50	0.00	12.50	14.10	13.40	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 6:30 AM	203.00	3.50	16.80	14.40	0.00	14.40	15.50	16.80	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 6:45 AM	220.00	4.00	17.20	14.40	0.00	14.40	15.80	17.20	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 7:00 AM	230.00	3.70	17.00	14.70	0.00	14.70	15.70	17.00	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 7:15 AM	218.00	3.10	17.60	14.80	0.00	14.80	16.10	17.60	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 7:30 AM	212.00	3.10	17.50	15.10	0.00	15.10	16.30	17.50	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 7:45 AM	208.00	4.50	16.50	14.40	0.00	14.40	15.20	16.50	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 8:00 AM	177.00	5.50	14.70	11.20	0.00	14.30	14.70	15.50	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 8:15 AM	197.00	4.70	16.10	14.90	0.00	14.90	15.70	16.10	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 8:30 AM	217.00	2.90	15.10	14.30	0.00	14.30	15.40	15.10	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 8:45 AM	198.00	4.90	14.50	14.10	0.00	14.10	15.00	14.50	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 9:00 AM	214.00	5.50	14.50	13.40	0.00	13.40	14.50	14.50	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 9:15 AM	198.00	5.70	14.20	13.50	0.00	13.50	14.10	14.20	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 9:30 AM	202.00	2.70	15.10	14.10	0.00	14.10	14.50	15.10	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 9:45 AM	182.00	4.00	15.30	14.30	0.00	14.30	14.60	15.30	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 10:00 AM	195.00	4.90	14.60	14.40	0.00	14.40	14.50	14.60	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 10:15 AM	192.00	4.60	17.40	14.70	0.00	14.70	15.90	17.40	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 10:30 AM	176.00	5.10	17.70	20.30	2.60	17.10	17.70	21.10	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 10:45 AM	205.00	5.60	21.80	17.90	0.00	17.90	17.50	21.80	33.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 11:00 AM	197.00	6.40	18.00	15.40	0.00	15.40	16.00	18.00	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 11:15 AM	182.00	6.20	14.70	14.80	0.10	14.80	13.90	14.70	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 11:30 AM	179.00	3.00	13.20	17.10	3.90	13.80	13.20	13.20	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 11:45 AM	189.00	4.90	13.80	14.40	0.60	14.40	12.90	13.80	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 12:00 PM	174.00	4.50	13.70	14.40	0.70	13.40	13.70	11.30	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 12:15 PM	177.00	5.10	14.30	20.20	5.90	14.50	14.30	13.10	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 12:30 PM	185.00	5.30	13.30	13.80	0.50	13.80	14.70	13.30	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 12:45 PM	178.00	8.10	15.90	17.20	1.30	12.90	15.90	19.50	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 1:00 PM	193.00	5.00	15.20	13.00	0.00	13.00	17.90	15.20	39.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 1:15 PM	192.00	4.20	15.90	14.20	0.00	14.20	17.30	15.90	24.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 1:30 PM	181.00	3.50	19.00	16.70	0													



US Army Corps  
of Engineers®

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
January, 2013

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )								Naphthalene (µg/m <sup>3</sup> )							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
1/18/14 9:45 PM	172.00	1.20	40.20	47.60	7.40	34.50	40.20	37.80	47.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 10:00 PM	328.00	1.90	56.80	41.60	0.00	0.00	41.60	35.80	56.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 10:15 PM	300.00	1.70	51.80	38.40	0.00	34.70	38.40	42.20	51.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 10:30 PM	273.00	1.20	53.50	40.10	0.00	34.70	40.10	41.20	53.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 10:45 PM	267.00	1.80	36.60	34.50	0.00	34.50	35.10	36.60	49.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 11:00 PM	309.00	1.80	48.10	36.50	0.00	0.00	36.50	37.90	48.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 11:15 PM	300.00	2.80	44.70	38.50	0.00	35.10	38.50	40.40	44.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 11:30 PM	293.00	2.30	52.70	45.50	0.00	40.20	45.50	46.30	52.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/18/14 11:45 PM	296.00	2.00	53.00	40.10	0.00	35.90	40.10	41.00	53.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 12:00 AM	304.00	2.80	36.10	36.90	0.80	0.00	36.90	36.60	36.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 12:15 AM	303.00	2.90	34.40	27.80	0.00	26.40	27.80	29.00	34.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 12:30 AM	299.00	2.40	34.60	29.20	0.00	26.90	29.20	30.70	34.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 12:45 AM	288.00	2.60	36.80	30.70	0.00	28.10	30.70	31.40	36.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 1:00 AM	294.00	2.90	37.00	27.60	0.00	28.10	27.60	29.10	37.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 1:15 AM	287.00	3.40	36.20	27.20	0.00	27.20	27.20	27.40	36.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 1:30 AM	291.00	3.00	37.90	30.00	0.00	28.60	30.00	31.00	37.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 1:45 AM	279.00	2.50	36.90	29.90	0.00	27.60	29.90	33.30	36.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 2:00 AM	273.00	2.40	40.90	32.70	0.00	30.30	32.70	34.90	40.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 2:15 AM	273.00	2.80	42.80	33.90	0.00	31.90	33.90	35.40	42.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 2:30 AM	283.00	3.20	47.50	38.40	0.00	34.90	38.40	40.00	47.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 2:45 AM	276.00	3.20	48.20	38.40	0.00	36.10	38.40	40.90	48.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 3:00 AM	254.00	2.50	37.90	35.00	0.00	35.00	37.70	37.90	45.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 3:15 AM	247.00	1.60	36.40	0.00	0.00	0.00	36.40	36.40	43.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 3:30 AM	250.00	2.00	35.10	32.60	0.00	32.60	36.50	35.10	43.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 3:45 AM	261.00	2.00	33.80	32.00	0.00	32.00	34.50	33.80	41.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 4:00 AM	235.00	3.10	33.10	31.60	0.00	31.60	34.20	33.10	42.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 4:15 AM	262.00	3.20	33.20	31.60	0.00	31.60	32.90	33.20	40.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 4:30 AM	275.00	3.70	40.00	31.00	0.00	28.60	31.00	30.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 4:45 AM	255.00	3.40	29.20	27.50	0.00	27.50	29.70	29.20	36.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 5:00 AM	252.00	3.70	30.20	27.50	0.00	27.50	29.90	30.20	36.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 5:15 AM	239.00	4.60	30.70	28.50	0.00	28.50	30.80	30.70	37.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 5:30 AM	246.00	2.60	31.30	29.20	0.00	29.20	31.30	31.30	37.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 5:45 AM	247.00	4.30	29.00	28.00	0.00	28.00	29.20	29.00	35.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 6:00 AM	211.00	3.10	29.00	27.80	0.00	27.80	28.30	29.00	35.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 6:15 AM	235.00	2.60	25.70	25.30	0.00	25.30	26.50	25.70	31.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 6:30 AM	244.00	4.40	25.20	24.40	0.00	24.40	26.70	25.20	31.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 6:45 AM	265.00	4.50	24.90	0.00	0.00	0.00	24.90	24.90	27.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 7:00 AM	243.00	4.10	23.80	23.40	0.00	23.40	26.10	23.80	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 7:15 AM	245.00	5.50	23.10	22.90	0.00	22.90	24.00	23.10	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 7:30 AM	242.00	6.80	22.80	0.00	0.00	0.00	23.10	22.80	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 7:45 AM	217.00	5.90	21.90	21.80	0.00	21.80	22.40	21.90	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 8:00 AM	233.00	5.80	19.90	19.80	0.00	19.80	20.40	19.90	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 8:15 AM	246.00	9.20	18.80	0.00	0.00	0.00	19.40	18.80	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 8:30 AM	233.00	7.10	18.60	19.20	0.60	19.20	19.40	18.60	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 8:45 AM	224.00	4.10	18.30	19.10	0.80	19.10	18.90	18.30	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 9:00 AM	227.00	5.60	18.10	18.90	0.80	18.90	18.70	18.10	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 9:15 AM	223.00	5.10	17.70	18.40	0.70	18.40	18.00	17.70	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 9:30 AM	234.00	7.20	17.40	17.90	0.50	17.90	18.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 9:45 AM	241.00	6.30	16.90	17.20	0.30	17.20	19.00	16.90	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 10:00 AM	243.00	8.50	16.10	16.70	0.60	16.70	18.00	16.10	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 10:15 AM	220.00	8.70	15.50	16.30	0.80	16.30	16.80	15.50	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 10:30 AM	231.00	7.60	15.40	16.50	1.10	16.50	16.10	15.40	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 10:45 AM	230.00	6.70	15.30	16.00	0.70	16.00	16.70	15.30	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 11:00 AM	235.00	9.00	16.00	15.40	0.00	15.40	15.10	16.00	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 11:15 AM	233.00	6.30	15.70	14.40	0.00	14.40	14.70	15.70	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 11:30 AM	244.00	8.80	13.80	14.10	0.30	14.10	15.10	13.80	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 11:45 AM	232.00	5.80	13.40	13.10	0.00	13.10	14.30	13.40	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 12:00 PM	240.00	11.40	12.90	13.40	0.50	13.40	13.60	12.90	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 12:15 PM	240.00	10.90	12.50	12.50	0.00	12.50	13.60	12.50	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 12:30 PM	234.00	8.10	12.60	12.60	0.00	12.60	13.80	12.60	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 12:45 PM	246.00	8.20	12.80	12.60	0.00	12.60	16.50	12.80	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 1:00 PM	238.00	10.20	12.30	12.30	0.00	12.30	13.80	12.30	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 1:15 PM	255.00	11.50	13.10	12.70	0.00	12.70	14.80	13.10	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 1:30 PM	245.00	9.30	13.50	12.80	0.00	12.80	14.50	13.50	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 1:45 PM	245.00	9.10	14.00	12.90	0.00	12.90	15.20	14.00	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 2:00 PM	241.00	6.00	14.30	12.80	0.00	12.80	14.80	14.30	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 2:15 PM	258.00	9.60	14.30	13.00	0.00	13.00	15.00	14.30	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 2:30 PM	222.00	6.70	13.90	13.30	0.00	13.30	15.00	13.90	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 2:45 PM	255.00	8.80	14.60	13.20	0.00													



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Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
January, 2013

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )								Naphthalene (µg/m <sup>3</sup> )							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
1/19/14 11:00 PM	235.00	5.90	6.80	8.20	1.40	8.20	10.00	6.80	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 11:15 PM	235.00	6.60	6.80	8.20	1.40	8.20	10.10	6.80	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 11:30 PM	255.00	6.40	7.10	8.10	1.00	8.10	10.50	7.10	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/19/14 11:45 PM	258.00	5.90	6.90	8.00	1.10	8.00	10.00	6.90	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 12:00 AM	275.00	4.40	11.00	10.00	0.00	8.00	10.00	6.90	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 12:15 AM	277.00	3.70	11.80	11.00	0.00	8.70	11.00	7.40	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 12:30 AM	294.00	5.00	12.30	11.30	0.00	0.00	11.30	8.40	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 12:45 AM	299.00	4.70	13.00	11.80	0.00	10.90	11.80	8.60	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 1:00 AM	290.00	5.80	11.80	12.10	0.30	9.90	12.10	8.90	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 1:15 AM	317.00	4.20	10.00	11.90	1.90	8.50	11.90	8.50	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 1:30 AM	313.00	4.30	9.80	10.70	0.90	8.80	10.70	9.00	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 1:45 AM	312.00	4.40	11.20	11.20	0.00	9.80	11.20	7.70	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 2:00 AM	313.00	3.20	11.00	12.30	1.30	0.00	12.30	8.70	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 2:15 AM	312.00	4.00	11.40	13.30	1.90	9.80	13.30	9.90	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 2:30 AM	312.00	4.60	11.80	12.80	1.00	10.20	12.80	9.90	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 2:45 AM	322.00	4.80	12.00	12.70	0.70	10.40	12.70	8.90	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 3:00 AM	322.00	5.40	11.40	12.50	1.10	10.40	12.50	9.50	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 3:15 AM	310.00	4.20	11.40	13.20	1.80	10.10	13.20	10.10	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 3:30 AM	331.00	5.90	11.40	13.00	1.60	10.80	13.00	9.40	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 3:45 AM	299.00	5.00	11.50	12.90	1.40	10.40	12.90	10.30	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 4:00 AM	310.00	5.50	11.60	13.50	1.90	10.30	13.50	10.80	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 4:15 AM	318.00	3.90	12.90	13.70	0.80	11.10	13.70	10.50	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 4:30 AM	321.00	5.10	12.50	14.70	2.20	11.20	14.70	11.40	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 4:45 AM	328.00	5.90	12.80	14.80	2.00	12.10	14.80	12.20	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 5:00 AM	327.00	3.70	12.50	15.00	2.50	12.00	15.00	12.10	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 5:15 AM	330.00	2.60	13.00	15.00	2.00	12.00	15.00	12.10	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 5:30 AM	342.00	3.50	13.20	15.60	2.40	12.50	15.60	12.70	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 5:45 AM	1.00	8.80	12.90	12.80	0.00	12.90	15.70	12.80	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 6:00 AM	10.00	7.80	14.90	16.10	1.20	14.90	21.10	16.10	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 6:15 AM	16.00	8.90	13.30	12.60	0.00	13.30	18.90	12.60	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 6:30 AM	11.00	6.90	14.00	11.10	0.00	14.00	20.30	11.10	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 6:45 AM	8.00	7.30	10.30	9.00	0.00	10.30	11.70	9.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 7:00 AM	1.00	7.10	9.80	9.60	0.00	9.80	11.70	9.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 7:15 AM	9.00	5.40	14.10	10.10	0.00	14.10	14.00	10.10	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 7:30 AM	8.00	6.60	14.50	9.90	0.00	14.50	13.20	9.90	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 7:45 AM	14.00	5.80	16.70	10.90	0.00	16.70	19.90	10.90	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 8:00 AM	0.00	5.70	11.40	10.70	0.00	11.40	12.70	10.70	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 8:15 AM	12.00	4.50	11.80	10.90	0.00	11.80	12.30	10.90	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 8:30 AM	10.00	4.40	11.00	11.50	0.50	11.00	12.90	11.50	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 8:45 AM	358.00	3.20	10.80	13.50	2.70	11.10	13.50	11.60	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 9:00 AM	7.00	3.30	11.70	11.60	0.00	11.70	12.90	11.60	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 9:15 AM	13.00	2.00	11.30	10.70	0.00	11.30	12.80	10.70	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 9:30 AM	332.00	2.10	10.80	12.40	1.60	10.90	12.40	9.40	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 9:45 AM	359.00	1.80	10.70	12.20	1.50	11.30	12.20	9.40	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 10:00 AM	22.00	4.30	11.40	9.50	0.00	11.40	12.00	9.50	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 10:15 AM	38.00	5.20	11.30	11.10	0.00	11.30	10.80	11.10	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 10:30 AM	73.00	2.70	0.00	11.60	0.00	0.00	11.70	11.60	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 10:45 AM	206.00	1.10	13.20	16.00	2.80	16.00	14.30	13.20	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 11:00 AM	205.00	1.00	13.50	13.60	0.10	13.60	13.00	13.50	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 11:15 AM	233.00	1.80	16.40	15.50	0.00	15.50	14.10	16.40	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 11:30 AM	205.00	1.00	16.30	16.60	0.30	16.60	15.50	16.30	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 11:45 AM	222.00	1.80	16.90	17.10	0.20	17.10	16.60	16.90	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 12:00 PM	258.00	2.40	16.70	17.30	0.60	17.30	16.60	16.70	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 12:15 PM	259.00	1.90	17.30	17.50	0.20	17.50	16.80	17.30	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 12:30 PM	254.00	2.20	16.80	16.50	0.00	16.50	16.60	16.80	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 12:45 PM	240.00	2.30	17.40	16.90	0.00	16.90	16.50	17.40	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 1:00 PM	248.00	2.60	16.20	16.20	0.00	16.20	17.00	16.20	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 1:15 PM	237.00	1.90	17.20	16.80	0.00	16.80	17.70	17.20	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 1:30 PM	251.00	2.40	17.80	16.90	0.00	16.90	18.00	17.80	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 1:45 PM	254.00	3.40	14.50	16.00	1.50	16.00	14.30	14.50	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 2:00 PM	263.00	4.90	10.70	12.40	1.70	12.40	12.80	10.70	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 2:15 PM	258.00	3.20	8.60	10.10	1.50	10.10	10.80	8.60	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 2:30 PM	278.00	3.80	10.00	10.60	0.60	9.50	10.60	8.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 2:45 PM	262.00	4.60	8.80	10.00	1.20	10.00	11.30	8.80	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 3:00 PM	267.00	3.20	10.40	11.00	0.60	11.00	12.40	10.40	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 3:15 PM	326.00	2.90	12.40	12.60	0.20	11.90	12.60	10.90	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 3:30 PM	13.00	4.10	9.40	7.60	0.00	9.40	10.00	7.60	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 3:45 PM	11.00	4.20	10.30	6.50	0.00	10.30	8.70	6.50	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/14 4:00 PM	22.00	5.70	8.60	5.30	0.00	8.60	9.50	5.30	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )								Naphthalene (µg/m <sup>3</sup> )							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
1/21/14 12:15 AM	49.00	9.30	0.00	23.50	0.00	0.00	20.40	23.50	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 12:30 AM	45.00	9.40	6.70	14.90	8.20	6.70	17.50	14.90	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 12:45 AM	47.00	11.80	8.00	29.80	21.80	8.00	21.40	29.80	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 1:00 AM	46.00	10.30	8.80	62.90	54.10	8.80	46.50	62.90	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 1:15 AM	61.00	10.50	10.90	30.80	19.90	10.90	20.00	30.80	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 1:30 AM	56.00	11.60	8.60	37.90	29.30	8.60	22.60	37.90	37.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 1:45 AM	66.00	12.60	8.80	71.60	62.80	8.80	29.60	71.60	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 2:00 AM	48.00	8.50	7.60	30.00	22.40	7.60	24.80	30.00	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 2:15 AM	39.00	10.10	9.40	30.40	21.00	9.40	17.40	30.40	28.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 2:30 AM	50.00	13.50	7.70	45.60	37.90	7.70	18.90	45.60	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 2:45 AM	34.00	11.10	7.00	55.50	48.50	7.00	17.20	55.50	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 3:00 AM	57.00	13.50	8.60	63.40	54.80	8.60	18.00	63.40	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 3:15 AM	54.00	10.80	8.80	43.20	34.40	8.80	25.10	43.20	26.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 3:30 AM	53.00	8.90	9.20	35.80	26.60	9.20	17.50	35.80	34.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 3:45 AM	68.00	10.00	11.60	76.90	65.30	11.60	19.60	76.90	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 4:00 AM	58.00	9.50	10.20	40.80	30.60	10.20	24.50	40.80	45.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 4:15 AM	55.00	10.20	12.90	31.80	18.90	12.90	29.80	31.80	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 4:30 AM	55.00	9.70	11.90	16.90	5.00	11.90	19.40	16.90	26.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 4:45 AM	40.00	13.60	9.70	33.90	24.20	9.70	17.40	33.90	29.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 5:00 AM	36.00	10.00	10.50	40.00	29.50	10.50	22.90	40.00	32.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 5:15 AM	59.00	7.60	11.50	13.20	1.70	11.50	38.00	13.20	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 5:30 AM	51.00	7.80	8.50	15.20	6.70	8.50	25.30	15.20	29.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 5:45 AM	343.00	3.70	25.10	33.50	8.40	10.90	33.50	44.60	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 6:00 AM	331.00	3.90	20.30	17.40	0.00	9.20	17.40	13.30	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 6:15 AM	339.00	5.30	21.10	17.30	0.00	8.90	17.30	15.60	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 6:30 AM	340.00	3.60	36.60	25.80	0.00	14.60	25.80	41.60	36.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 6:45 AM	327.00	5.10	31.90	65.70	33.80	15.60	65.70	42.20	31.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 7:00 AM	335.00	4.40	26.90	34.50	7.60	13.70	34.50	27.50	26.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 7:15 AM	334.00	6.50	37.30	32.70	0.00	16.60	32.70	22.20	37.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 7:30 AM	351.00	5.40	23.10	33.90	10.80	15.40	33.90	25.90	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 7:45 AM	337.00	6.70	29.40	36.50	7.10	14.60	36.50	29.60	29.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 8:00 AM	325.00	7.20	27.90	32.70	4.80	16.40	32.70	22.60	27.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 8:15 AM	330.00	8.60	24.70	60.30	35.60	17.30	60.30	22.70	24.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 8:30 AM	337.00	5.90	30.10	55.00	24.90	19.70	55.00	27.70	30.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 8:45 AM	327.00	4.20	32.60	44.90	12.30	19.60	44.90	27.20	32.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 9:00 AM	335.00	4.10	32.60	29.70	0.00	16.70	29.70	13.50	32.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 9:15 AM	336.00	6.70	19.00	18.60	0.00	15.30	18.60	10.30	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 9:30 AM	333.00	7.00	16.90	17.20	0.30	15.20	17.20	9.80	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 9:45 AM	327.00	9.00	18.10	18.20	0.10	15.30	18.20	10.90	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 10:00 AM	335.00	5.40	19.90	17.50	0.00	18.80	17.50	12.10	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 10:15 AM	326.00	7.60	17.30	19.10	1.80	16.70	19.10	11.00	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 10:30 AM	344.00	5.50	17.50	20.00	2.50	15.90	20.00	10.70	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 10:45 AM	331.00	8.00	15.90	20.90	5.00	16.00	20.90	13.10	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 11:00 AM	338.00	7.60	15.70	15.20	0.00	13.70	15.20	14.90	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 11:15 AM	337.00	7.20	15.20	16.20	1.00	14.30	16.20	17.40	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 11:30 AM	347.00	4.40	12.80	15.30	2.50	13.60	15.30	8.90	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 11:45 AM	345.00	9.60	10.80	14.00	3.20	11.90	14.00	8.80	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 12:00 PM	345.00	10.40	10.20	15.10	4.90	12.00	15.10	8.60	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 12:15 PM	336.00	5.70	9.70	12.60	2.90	0.00	12.60	7.40	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 12:30 PM	342.00	7.30	10.30	12.80	2.50	0.00	12.80	8.20	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 12:45 PM	6.00	8.50	14.00	17.70	3.70	14.00	19.30	17.70	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 1:00 PM	10.00	6.00	12.60	10.30	0.00	12.60	15.10	10.30	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 1:15 PM	330.00	5.20	9.60	9.70	0.10	10.10	9.70	7.50	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 1:30 PM	336.00	7.90	10.70	9.90	0.00	0.00	9.90	6.20	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 1:45 PM	351.00	6.80	11.00	9.80	0.00	9.00	9.80	5.60	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 2:00 PM	341.00	7.10	11.50	9.30	0.00	8.60	9.30	5.20	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 2:15 PM	2.00	5.90	8.60	5.00	0.00	8.60	8.80	5.00	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 2:30 PM	354.00	4.70	11.10	9.00	0.00	7.60	9.00	5.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 2:45 PM	351.00	5.50	11.10	9.80	0.00	7.30	9.80	6.10	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 3:00 PM	353.00	7.70	11.40	8.00	0.00	7.10	8.00	4.10	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 3:15 PM	344.00	6.90	11.50	7.90	0.00	6.90	7.90	4.20	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 3:30 PM	338.00	6.50	11.70	8.10	0.00	0.00	8.10	4.60	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 3:45 PM	328.00	7.40	12.50	8.00	0.00	6.50	8.00	4.40	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 4:00 PM	4.00	6.70	6.20	4.60	0.00	6.20	7.70	4.60	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 4:15 PM	11.00	7.50	6.70	5.50	0.00	6.70	8.10	5.50	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 4:30 PM	4.00	7.40	0.00	5.50	0.00	0.00	8.10	5.50	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 4:45 PM	354.00	5.50	12.70	8.10	0.00	7.00	8.10	5.60	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 5:00 PM	333.00	4.10	12.40	8.10	0.00	7.00	8.10	7.00	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/21/14 5:15 PM	344.00	3.50	13.70	8.90	0.00	7.30	8.90	8.50	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		



**US Army Corps  
of Engineers®**

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
January, 2013

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )							Naphthalene (µg/m <sup>3</sup> )						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
1/22/14 1:30 AM	274.00	1.50	24.90	19.90	0.00	20.40	19.90	19.10	24.90	0.00	1.60	1.60	0.00	1.60	0.00	0.00
1/22/14 1:45 AM	254.00	1.90	20.00	19.10	0.00	19.10	21.30	20.00	22.60	0.00	1.50	1.50	0.00	1.50	0.00	0.00
1/22/14 2:00 AM	236.00	1.90	21.50	19.40	0.00	19.40	22.10	21.50	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 2:15 AM	229.00	1.50	20.50	0.00	0.00	0.00	21.30	20.50	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 2:30 AM	249.00	2.20	19.40	0.00	0.00	0.00	20.30	19.40	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 2:45 AM	289.00	1.00	22.10	17.80	0.00	18.40	17.80	16.90	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 3:00 AM	240.00	1.90	14.60	16.70	2.10	16.70	16.70	14.60	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 3:15 AM	267.00	3.10	13.90	15.90	2.00	15.90	16.80	13.90	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 3:30 AM	246.00	2.00	13.30	0.00	0.00	0.00	15.60	13.30	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 3:45 AM	261.00	2.30	12.00	13.80	1.80	13.80	14.90	12.00	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 4:00 AM	238.00	1.50	13.20	13.20	0.00	13.20	15.80	13.20	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 4:15 AM	235.00	2.00	13.80	14.40	0.60	14.40	16.20	13.80	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 4:30 AM	187.00	1.50	14.50	0.00	0.00	0.00	16.40	14.50	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 4:45 AM	155.00	1.60	16.50	17.50	1.00	14.70	16.50	15.10	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 5:00 AM	129.00	2.60	16.90	17.90	1.00	15.00	16.90	14.40	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 5:15 AM	139.00	2.60	18.10	17.40	0.00	15.00	18.10	15.40	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 5:30 AM	149.00	1.70	22.30	22.80	0.50	19.60	22.30	25.80	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 5:45 AM	179.00	1.70	20.60	23.30	2.70	19.20	20.60	18.90	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 6:00 AM	211.00	2.90	13.60	17.70	4.10	17.70	18.30	13.60	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 6:15 AM	218.00	2.40	13.70	13.20	0.00	13.20	14.80	13.70	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 6:30 AM	217.00	3.00	12.60	12.70	0.10	12.70	14.50	12.60	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 6:45 AM	213.00	3.80	12.70	13.50	0.80	13.50	14.90	12.70	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 7:00 AM	199.00	4.40	13.10	13.30	0.20	13.30	15.80	13.10	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 7:15 AM	152.00	2.50	14.60	15.70	1.10	13.30	14.60	12.90	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 7:30 AM	233.00	3.30	12.80	13.30	0.50	13.30	15.90	12.80	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 7:45 AM	205.00	4.10	13.60	13.70	0.10	13.70	14.00	13.60	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 8:00 AM	186.00	4.30	13.60	12.70	0.00	12.70	14.40	13.60	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 8:15 AM	179.00	3.70	14.40	14.30	0.00	13.00	14.40	13.70	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 8:30 AM	198.00	4.60	12.80	12.20	0.00	12.20	14.40	12.80	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 8:45 AM	209.00	3.10	13.40	12.10	0.00	12.10	14.40	13.40	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 9:00 AM	201.00	2.50	11.90	12.00	0.10	12.00	13.40	11.90	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 9:15 AM	188.00	4.70	9.50	10.90	1.40	10.90	13.10	9.50	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 9:30 AM	199.00	3.30	9.50	10.60	1.10	10.60	12.30	9.50	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 9:45 AM	191.00	4.90	9.90	10.60	0.70	10.60	12.30	9.90	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 10:00 AM	210.00	3.80	9.30	10.40	1.10	10.40	11.80	9.30	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 10:15 AM	210.00	5.40	9.30	10.00	0.70	10.00	13.00	9.30	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 10:30 AM	215.00	3.80	10.20	10.00	0.00	10.00	11.50	10.20	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 10:45 AM	235.00	3.50	11.90	9.90	0.00	9.90	11.90	11.90	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 11:00 AM	198.00	5.40	12.20	10.80	0.00	10.80	16.10	12.20	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 11:15 AM	219.00	6.40	14.30	11.40	0.00	11.40	16.30	14.30	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 11:30 AM	217.00	5.60	15.50	11.60	0.00	11.60	17.80	15.50	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 11:45 AM	215.00	5.00	12.90	10.40	0.00	10.40	17.10	12.90	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 12:00 PM	209.00	5.60	12.70	10.00	0.00	10.00	18.60	12.70	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 12:15 PM	212.00	5.70	11.30	10.10	0.00	10.10	16.20	11.30	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 12:30 PM	211.00	6.30	11.70	9.90	0.00	9.90	15.40	11.70	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 12:45 PM	224.00	4.50	12.90	0.00	0.00	0.00	14.30	12.90	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 1:00 PM	212.00	8.20	11.50	9.50	0.00	9.50	14.40	11.50	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 1:15 PM	208.00	6.10	11.50	9.80	0.00	9.80	15.10	11.50	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 1:30 PM	217.00	8.40	12.20	0.00	0.00	0.00	14.30	12.20	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 1:45 PM	211.00	5.70	12.40	10.70	0.00	10.70	15.00	12.40	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 2:00 PM	243.00	5.00	14.10	10.90	0.00	10.90	14.50	14.10	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 2:15 PM	240.00	5.00	13.60	10.20	0.00	10.20	13.60	13.60	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 2:30 PM	254.00	5.50	14.00	10.50	0.00	10.50	13.90	14.00	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 2:45 PM	260.00	7.90	16.10	10.40	0.00	10.40	16.50	16.10	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 3:00 PM	258.00	4.90	17.70	10.90	0.00	10.90	19.20	17.70	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 3:15 PM	224.00	5.70	18.80	11.60	0.00	11.60	18.20	18.80	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 3:30 PM	260.00	4.50	16.40	11.50	0.00	11.50	17.10	16.40	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 3:45 PM	245.00	5.30	17.30	11.80	0.00	11.80	17.60	17.30	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 4:00 PM	263.00	5.90	19.30	12.00	0.00	12.00	17.50	19.30	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 4:15 PM	261.00	4.20	20.80	11.90	0.00	11.90	17.80	20.80	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 4:30 PM	284.00	5.00	20.30	17.90	0.00	11.70	17.90	20.40	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 4:45 PM	271.00	4.30	22.50	19.70	0.00	12.50	19.70	21.40	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 5:00 PM	276.00	3.40	24.60	21.80	0.00	12.80	21.80	22.30	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 5:15 PM	293.00	4.70	26.20	21.60	0.00	13.30	21.60	24.90	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 5:30 PM	300.00	3.20	31.90	30.00	0.00	14.90	30.00	28.10	31.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 5:45 PM	272.00	5.00	29.80	25.80	0.00	14.80	25.80	28.00	29.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 6:00 PM	306.00	6.80	31.40	24.10	0.00	0.00	24.10	26.20	31.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 6:15 PM	320.00	7.80	27.90	23.70	0.00	14.70	23.70	24.50	27.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/14 6:30 PM	323.00	7.50	27.90	39.80	11.90	15.00	39.80	28.90								



US Army Corps  
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Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
January, 2013

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )							Naphthalene (µg/m <sup>3</sup> )						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
1/23/14 2:45 AM	322.00	7.30	13.90	14.50	0.60	9.40	14.50	7.90	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 3:00 AM	317.00	5.60	13.20	14.20	1.00	9.40	14.20	7.50	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 3:15 AM	327.00	4.50	13.50	14.50	1.00	9.40	14.50	7.80	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 3:30 AM	327.00	5.70	14.00	13.80	0.00	9.40	13.80	7.40	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 3:45 AM	308.00	4.60	14.00	13.50	0.00	0.00	13.50	7.40	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 4:00 AM	307.00	5.10	12.80	13.40	0.60	9.40	13.40	6.70	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 4:15 AM	313.00	5.10	12.30	12.80	0.50	9.40	12.80	7.60	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 4:30 AM	312.00	7.70	12.00	13.10	1.10	9.40	13.10	7.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 4:45 AM	303.00	6.80	12.00	13.40	1.40	9.40	13.40	6.80	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 5:00 AM	299.00	6.60	11.60	12.80	1.20	9.40	12.80	6.30	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 5:15 AM	319.00	6.10	11.10	12.80	1.70	9.40	12.80	6.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 5:30 AM	310.00	6.70	10.90	12.40	1.50	9.40	12.40	6.10	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 5:45 AM	311.00	6.30	11.10	14.40	3.30	9.40	14.40	6.50	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 6:00 AM	307.00	7.40	11.00	12.50	1.50	9.40	12.50	5.90	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 6:15 AM	316.00	6.60	10.80	12.20	1.40	9.40	12.20	6.20	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 6:30 AM	319.00	6.50	10.90	12.20	1.30	9.40	12.20	6.30	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 6:45 AM	329.00	6.90	10.30	14.60	4.30	9.40	14.60	6.70	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 7:00 AM	319.00	5.00	12.30	12.90	0.60	9.40	12.90	7.10	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 7:15 AM	323.00	5.20	12.30	12.00	0.00	9.40	12.00	7.10	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 7:30 AM	312.00	5.00	11.90	12.60	0.70	9.40	12.60	7.50	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 7:45 AM	317.00	4.10	11.90	12.90	1.00	9.40	12.90	7.80	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 8:00 AM	293.00	5.20	11.40	12.00	0.60	9.40	12.00	7.20	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 8:15 AM	314.00	4.80	10.90	12.00	1.10	0.00	12.00	7.20	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 8:30 AM	303.00	5.30	10.40	12.80	2.40	9.40	12.80	8.80	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 8:45 AM	308.00	6.80	46.00	12.10	0.00	9.40	12.10	6.70	46.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 9:00 AM	303.00	3.80	10.80	13.20	2.40	9.40	13.20	8.20	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 9:15 AM	310.00	4.40	11.50	12.60	1.10	9.40	12.60	6.80	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 9:30 AM	319.00	4.70	10.90	12.30	1.40	9.40	12.30	7.30	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 9:45 AM	325.00	5.70	11.50	11.80	0.30	9.40	11.80	6.00	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 10:00 AM	321.00	6.70	10.10	11.50	1.40	9.40	11.50	7.10	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 10:15 AM	317.00	7.80	10.00	13.00	3.00	9.40	13.00	5.60	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 10:30 AM	318.00	5.20	10.00	11.10	1.10	9.40	11.10	7.10	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 10:45 AM	329.00	6.10	9.70	11.40	1.70	9.40	11.40	5.60	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 11:00 AM	322.00	5.90	9.20	11.20	2.00	0.00	11.20	7.00	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 11:15 AM	320.00	6.60	8.40	10.90	2.50	9.40	10.90	6.10	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 11:30 AM	324.00	6.10	8.80	10.60	1.80	9.40	10.60	8.70	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 11:45 AM	310.00	4.90	8.50	10.10	1.60	9.40	10.10	6.10	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 12:00 PM	307.00	6.30	7.70	10.30	2.60	9.40	10.30	7.00	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 12:15 PM	298.00	6.00	7.90	9.80	1.90	9.40	9.80	6.70	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 12:30 PM	308.00	6.10	8.30	11.30	3.00	9.40	11.30	8.20	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 12:45 PM	304.00	6.80	8.70	10.80	2.10	9.40	10.80	8.30	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 1:00 PM	302.00	5.20	8.40	10.90	2.50	9.40	10.90	8.10	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 1:15 PM	311.00	5.90	8.70	11.30	2.60	9.40	11.30	7.90	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 1:30 PM	302.00	7.60	8.50	11.50	3.00	9.40	11.50	8.50	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 1:45 PM	306.00	7.70	8.90	12.50	3.60	9.40	12.50	8.20	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 2:00 PM	318.00	6.30	9.50	11.10	1.60	9.40	11.10	9.00	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 2:15 PM	316.00	5.50	8.90	12.20	3.30	9.40	12.20	10.30	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 2:30 PM	301.00	4.90	8.80	12.30	3.50	9.40	12.30	9.00	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 2:45 PM	313.00	4.60	8.80	12.60	3.80	9.40	12.60	9.80	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 3:00 PM	287.00	6.60	9.00	13.20	4.20	9.40	13.20	10.90	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 3:15 PM	302.00	6.70	9.80	12.80	3.00	0.00	12.80	11.10	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 3:30 PM	295.00	6.80	9.80	13.00	3.20	9.40	13.00	12.00	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 3:45 PM	307.00	5.40	10.30	13.10	2.80	9.40	13.10	12.50	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 4:00 PM	280.00	5.90	11.50	12.90	1.40	9.40	12.90	13.10	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 4:15 PM	297.00	6.00	11.20	13.70	2.50	9.40	13.70	12.80	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 4:30 PM	288.00	5.30	11.30	13.90	2.60	9.40	13.90	13.30	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 4:45 PM	274.00	5.30	11.40	14.00	2.60	9.40	14.00	12.90	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 5:00 PM	301.00	4.40	12.70	15.00	2.30	9.40	15.00	14.70	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 5:15 PM	300.00	7.90	12.40	14.50	2.10	9.40	14.50	12.00	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 5:30 PM	295.00	3.80	12.00	14.50	2.50	9.40	14.50	14.40	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 5:45 PM	305.00	5.60	13.70	14.80	1.10	9.40	14.80	15.00	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 6:00 PM	285.00	4.30	13.20	15.30	2.10	9.40	15.30	15.40	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 6:15 PM	281.00	5.90	14.90	16.50	1.60	9.40	16.50	16.20	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 6:30 PM	289.00	6.80	15.60	16.80	1.20	9.40	16.80	16.20	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 6:45 PM	299.00	5.70	15.60	15.90	0.30	9.40	15.90	16.20	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 7:00 PM	286.00	5.80	15.90	15.70	0.00	9.40	15.70	13.80	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 7:15 PM	287.00	3.80	15.40	16.40	1.00	9.40	16.40	16.20	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 7:30 PM	286.00	4.80	15.20	16.80	1.60	9.40	16.80	15.50	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 7:45 PM	290.00	5.50	15.00	16.00	1.00	9.40	16.00	13.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/14 8:00 PM	293.00	4.10	14.40	15.70												





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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )							Naphthalene (µg/m <sup>3</sup> )						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
1/25/14 5:15 AM	0.00	0.00	0.00	0.00	0.00	0.00	9.40	35.90	34.10	32.50	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 5:30 AM	0.00	0.00	0.00	0.00	0.00	0.00	9.40	38.40	38.20	31.50	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 5:45 AM	0.00	0.00	0.00	0.00	0.00	0.00	9.40	36.00	30.00	29.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 6:00 AM	318.00	7.30	28.10	28.10	0.00	0.00	9.40	28.10	27.20	28.10	0.00	0.00	0.00	1.70	0.00	0.00
1/25/14 6:15 AM	309.00	6.40	24.50	24.90	0.40	0.00	9.40	24.90	18.80	24.50	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 6:30 AM	0.00	0.00	0.00	0.00	0.00	0.00	9.40	20.70	16.40	22.10	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 6:45 AM	0.00	0.00	0.00	0.00	0.00	0.00	9.40	19.90	17.00	23.90	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 7:00 AM	0.00	0.00	0.00	0.00	0.00	0.00	9.40	16.30	12.20	22.70	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 7:15 AM	0.00	0.00	0.00	0.00	0.00	0.00	9.40	17.70	13.70	23.10	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 7:30 AM	0.00	0.00	0.00	0.00	0.00	0.00	9.40	16.90	12.50	22.70	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 7:45 AM	0.00	0.00	0.00	0.00	0.00	0.00	9.40	0.00	11.70	24.10	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 8:00 AM	0.00	0.00	0.00	0.00	0.00	0.00	9.40	15.50	9.80	23.10	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 8:15 AM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.50	9.40	23.80	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 8:30 AM	0.00	0.00	0.00	0.00	0.00	0.00	9.40	16.10	9.60	23.60	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 8:45 AM	0.00	0.00	0.00	0.00	0.00	0.00	9.40	19.70	10.30	19.80	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 9:00 AM	0.00	0.00	0.00	0.00	0.00	0.00	9.40	13.00	7.80	16.60	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 9:15 AM	0.00	0.00	0.00	0.00	0.00	0.00	9.40	12.10	8.90	17.60	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 9:30 AM	319.00	10.00	15.00	13.20	0.00	0.00	9.40	13.20	4.30	15.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 9:45 AM	310.00	8.60	14.30	12.30	0.00	0.00	9.40	12.30	2.70	14.30	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 10:00 AM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.40	3.30	14.80	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 10:15 AM	0.00	0.00	0.00	0.00	0.00	0.00	9.40	13.80	4.40	14.50	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 10:30 AM	0.00	0.00	0.00	0.00	0.00	0.00	9.40	21.90	3.60	14.20	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 10:45 AM	3.00	9.40	9.40	4.60	0.00	0.00	9.40	18.20	4.60	14.30	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 11:00 AM	13.00	7.60	9.40	3.60	0.00	0.00	9.40	18.50	3.60	13.50	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 11:15 AM	0.00	0.00	0.00	0.00	0.00	0.00	9.40	34.10	4.00	13.40	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 11:30 AM	333.00	6.30	14.20	29.20	15.00	0.00	0.00	29.20	4.60	14.20	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 11:45 AM	340.00	6.30	14.20	16.20	2.00	0.00	9.40	16.20	4.70	14.20	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 12:00 PM	333.00	8.90	14.50	20.70	6.20	0.00	9.40	20.70	4.90	14.50	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 12:15 PM	336.00	13.20	14.30	15.00	0.70	0.00	9.40	15.00	4.20	14.30	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 12:30 PM	346.00	6.00	14.30	15.10	0.80	0.00	9.40	15.10	3.80	14.30	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 12:45 PM	359.00	8.80	13.30	15.80	2.50	0.00	9.40	15.80	5.40	13.30	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 1:00 PM	335.00	7.90	13.20	18.10	4.90	0.00	9.40	18.10	6.10	13.20	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 1:15 PM	332.00	10.30	12.30	16.70	4.40	0.00	9.40	16.70	4.20	12.30	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 1:30 PM	334.00	6.90	11.90	14.70	2.80	0.00	9.40	14.70	4.40	11.90	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 1:45 PM	296.00	8.60	14.30	16.30	2.00	0.00	9.40	16.30	6.30	14.30	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 2:00 PM	325.00	9.20	12.20	15.50	3.30	0.00	9.40	15.50	4.90	12.20	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 2:15 PM	327.00	10.30	12.50	18.80	6.30	0.00	0.00	18.80	6.20	12.50	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 2:30 PM	331.00	8.50	11.90	15.80	3.90	0.00	9.40	15.80	6.20	11.90	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 2:45 PM	312.00	9.20	14.10	17.30	3.20	0.00	9.40	17.30	5.60	14.10	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 3:00 PM	316.00	7.50	11.70	14.50	2.80	0.00	9.40	14.50	4.80	11.70	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 3:15 PM	316.00	6.50	11.50	14.40	2.90	0.00	9.40	14.40	5.00	11.50	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 3:30 PM	329.00	8.10	11.10	15.20	4.10	0.00	9.40	15.20	4.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 3:45 PM	318.00	11.60	10.80	14.50	3.70	0.00	9.40	14.50	5.50	10.80	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 4:00 PM	323.00	7.60	10.80	14.10	3.30	0.00	9.40	14.10	5.20	10.80	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 4:15 PM	318.00	7.80	10.90	14.60	3.70	0.00	9.40	14.60	5.30	10.90	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 4:30 PM	310.00	7.50	11.70	14.40	2.70	0.00	9.40	14.40	6.50	11.70	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 4:45 PM	303.00	5.10	11.20	15.10	3.90	0.00	9.40	15.10	5.40	11.20	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 5:00 PM	288.00	9.10	10.70	13.20	2.50	0.00	9.40	13.20	4.80	10.70	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 5:15 PM	324.00	6.00	10.90	13.30	2.40	0.00	9.40	13.30	5.00	10.90	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 5:30 PM	296.00	5.40	11.20	14.00	2.80	0.00	9.40	14.00	5.40	11.20	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 5:45 PM	297.00	5.00	10.10	12.90	2.80	0.00	9.40	12.90	4.70	10.10	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 6:00 PM	267.00	3.40	4.70	9.40	4.70	0.00	9.40	12.90	4.70	10.10	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 6:15 PM	278.00	5.90	10.20	13.50	3.30	0.00	9.40	13.50	5.40	10.20	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 6:30 PM	290.00	5.90	10.50	13.60	3.10	0.00	9.40	13.60	5.90	10.50	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 6:45 PM	307.00	5.00	10.00	13.20	3.20	0.00	9.40	13.20	5.30	10.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 7:00 PM	297.00	4.70	10.10	13.60	3.50	0.00	9.40	13.60	6.30	10.10	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 7:15 PM	308.00	4.80	10.00	13.20	3.20	0.00	9.40	13.20	6.50	10.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 7:30 PM	296.00	4.90	9.60	13.00	3.40	0.00	9.40	13.00	7.30	9.60	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 7:45 PM	308.00	5.00	9.60	13.10	3.50	0.00	9.40	13.10	6.50	9.60	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 8:00 PM	272.00	7.00	9.50	14.40	4.90	0.00	9.40	14.40	9.80	9.50	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 8:15 PM	322.00	8.20	9.40	13.40	4.00	0.00	9.40	13.40	7.30	9.40	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 8:30 PM	308.00	6.70	9.10	13.10	4.00	0.00	9.40	13.10	7.20	9.10	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 8:45 PM	276.00	3.80	9.30	12.90	3.60	0.00	9.40	12.90	7.20	9.30	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 9:00 PM	279.00	9.00	9.80	14.30	4.50	0.00	9.40	14.30	9.40	9.80	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 9:15 PM	293.00	6.40	9.60	14.80	5.20	0.00	9.40	14.80	8.50	9.60	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 9:30 PM	295.00	4.90	9.10	14.50	5.40	0.00	9.40	14.50	8.70	9.10	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 9:45 PM	308.00	7.50	9.90	15.10	5.20	0.00	9.40	15.10	10.20	9.90	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 10:00 PM	307.00	6.20	10.10	14.90	4.80	0.00	9.40	14.90	10.40	10.10	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 10:15 PM	273.00	4.10	10.20	14.40	4.20	0.00	9.40	14.40	8.60	10.20	0.00	0.00	0.00	0.00	0.00	0.00
1/25/14 10:30 PM	291.00	3.30	9.90	14.40	4.50	0.00	9.40	14.40	8.90	9.90						







US Army Corps  
of Engineers®

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
January, 2013

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )								Naphthalene (µg/m <sup>3</sup> )							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
1/27/14 7:45 AM	303.00	5.10	12.40	24.60	12.20	9.40	24.60	8.50	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 8:00 AM	289.00	6.20	12.20	24.40	12.20	9.40	24.40	8.20	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 8:15 AM	288.00	4.60	12.20	27.00	14.80	9.40	27.00	9.10	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 8:30 AM	296.00	7.20	12.10	24.00	11.90	9.40	24.00	8.80	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 8:45 AM	313.00	7.10	12.10	23.90	11.80	9.40	23.90	8.60	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 9:00 AM	304.00	6.20	11.50	24.10	12.60	9.40	24.10	8.50	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 9:15 AM	314.00	8.10	11.00	26.10	15.10	9.40	26.10	8.20	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 9:30 AM	304.00	8.40	10.80	24.00	13.20	9.40	24.00	8.50	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 9:45 AM	304.00	7.60	10.80	23.20	12.40	9.40	23.20	6.90	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 10:00 AM	315.00	6.50	10.20	23.10	12.90	9.40	23.10	7.30	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 10:15 AM	298.00	7.00	10.10	21.80	11.70	9.40	21.80	6.90	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 10:30 AM	293.00	6.60	9.70	21.30	11.60	9.40	21.30	6.40	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 10:45 AM	289.00	7.40	9.30	21.60	12.30	9.40	21.60	6.40	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 11:00 AM	304.00	8.50	9.00	21.30	12.30	9.40	21.30	6.60	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 11:15 AM	311.00	7.90	9.00	22.30	13.30	9.40	22.30	6.50	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 11:30 AM	283.00	6.30	9.30	23.60	14.30	9.40	23.60	7.40	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 11:45 AM	295.00	6.10	9.00	23.50	14.50	9.40	23.50	6.30	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 12:00 PM	301.00	7.80	8.80	21.30	12.50	0.00	21.30	6.00	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 12:15 PM	269.00	6.00	6.10	9.40	3.30	9.40	24.30	6.10	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 12:30 PM	280.00	7.90	8.50	21.00	12.50	9.40	21.00	5.70	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 12:45 PM	275.00	7.90	8.30	19.20	10.90	9.40	19.20	5.70	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 1:00 PM	291.00	5.80	7.90	19.70	11.80	9.40	19.70	5.70	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 1:15 PM	302.00	7.30	8.10	24.90	16.80	9.40	24.90	8.60	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 1:30 PM	268.00	6.80	6.30	9.40	3.10	9.40	20.80	6.30	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 1:45 PM	271.00	9.70	7.90	20.90	13.00	9.40	20.90	7.50	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 2:00 PM	288.00	7.70	7.60	21.90	14.30	9.40	21.90	7.90	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 2:15 PM	277.00	8.70	7.60	20.20	12.60	9.40	20.20	6.50	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 2:30 PM	275.00	5.70	8.00	20.20	12.20	9.40	20.20	6.80	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 2:45 PM	300.00	8.30	8.40	20.30	11.90	9.40	20.30	7.80	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 3:00 PM	271.00	8.70	8.40	20.60	12.20	9.40	20.60	7.20	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 3:15 PM	287.00	6.80	8.80	20.50	11.70	9.40	20.50	7.80	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 3:30 PM	283.00	8.70	9.10	21.10	12.00	9.40	21.10	8.90	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 3:45 PM	316.00	9.50	10.00	21.50	11.50	9.40	21.50	9.20	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 4:00 PM	315.00	8.70	10.00	20.10	10.10	9.40	20.10	9.60	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 4:15 PM	304.00	7.10	10.20	20.50	10.30	9.40	20.50	10.50	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 4:30 PM	301.00	4.60	9.80	19.40	9.60	9.40	19.40	9.60	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 4:45 PM	311.00	7.20	9.60	19.70	10.10	9.40	19.70	9.30	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 5:00 PM	287.00	5.40	9.90	19.80	9.90	9.40	19.80	10.00	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 5:15 PM	287.00	6.20	10.90	20.10	9.20	9.40	20.10	10.10	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 5:30 PM	292.00	6.30	10.40	19.60	9.20	9.40	19.60	10.20	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 5:45 PM	298.00	4.80	10.90	19.10	8.20	0.00	19.10	11.10	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 6:00 PM	284.00	5.90	10.80	18.90	8.10	9.40	18.90	11.00	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 6:15 PM	297.00	4.00	10.30	20.30	10.00	9.40	20.30	11.90	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 6:30 PM	309.00	10.20	11.10	20.20	9.10	9.40	20.20	12.20	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 6:45 PM	287.00	4.90	9.70	19.00	9.30	9.40	19.00	12.40	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 7:00 PM	284.00	7.00	8.90	18.70	9.80	9.40	18.70	12.70	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 7:15 PM	297.00	6.60	9.50	18.50	9.00	9.40	18.50	12.10	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 7:30 PM	299.00	4.50	9.00	18.20	9.20	9.40	18.20	11.60	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 7:45 PM	288.00	8.60	8.80	17.80	9.00	9.40	17.80	12.10	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 8:00 PM	292.00	4.30	8.50	17.00	8.50	9.40	17.00	11.10	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 8:15 PM	318.00	3.10	8.90	17.80	8.90	9.40	17.80	11.50	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 8:30 PM	285.00	4.70	9.30	17.00	7.70	9.40	17.00	10.50	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 8:45 PM	293.00	5.50	9.00	17.00	8.00	9.40	17.00	10.70	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 9:00 PM	304.00	3.40	8.60	17.30	8.70	9.40	17.30	11.40	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 9:15 PM	299.00	1.90	8.40	17.10	8.70	9.40	17.10	11.10	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 9:30 PM	293.00	4.60	8.70	17.00	8.30	9.40	17.00	10.80	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 9:45 PM	313.00	2.40	8.60	16.80	8.20	9.40	16.80	11.30	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 10:00 PM	308.00	2.90	8.70	15.90	7.20	9.40	15.90	9.90	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 10:15 PM	303.00	3.60	8.80	15.60	6.80	9.40	15.60	9.90	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 10:30 PM	315.00	2.30	8.20	16.60	8.40	9.40	16.60	10.90	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 10:45 PM	272.00	3.90	8.70	17.30	8.60	9.40	17.30	12.20	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 11:00 PM	282.00	5.80	9.30	17.90	8.60	9.40	17.90	12.80	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 11:15 PM	276.00	4.60	9.40	18.10	8.70	9.40	18.10	13.40	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 11:30 PM	246.00	3.40	13.30	9.40	0.00	9.40	18.30	13.30	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/27/14 11:45 PM	288.00	3.30	9.90	18.50	8.60	9.40	18.50	13.50	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/28/14 12:00 AM	234.00	2.50	13.90	9.40	0.00	9.40	18.60	13.90	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/28/14 12:15 AM	243.00	1.80	13.70	9.40	0.00	9.40	18.50	13.70	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/28/14 12:30 AM	250.00	2.80	13.20	9.40	0.00	9.40	17.80	13.20	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/28/14 12:45 AM	72.00	1.70	9.40	14.30	4.90	9.40	17.90	14.30	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/28/14 1:00 AM	52.00	0.90	9.40	14.														







**US Army Corps  
of Engineers®**

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
January, 2013

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )							Naphthalene (µg/m <sup>3</sup> )						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
1/30/14 11:30 AM	202.00	11.10	16.90	9.40	0.00	9.40	16.50	16.90	49.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 11:45 AM	175.00	11.90	17.90	74.50	56.60	9.40	17.90	16.60	74.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 12:00 PM	190.00	6.80	17.00	9.40	0.00	9.40	17.60	17.00	66.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 12:15 PM	202.00	9.10	17.70	9.40	0.00	9.40	17.80	17.70	74.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 12:30 PM	206.00	9.90	18.60	0.00	0.00	0.00	17.70	18.60	67.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 12:45 PM	198.00	9.10	19.40	9.40	0.00	9.40	19.30	19.40	218.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 1:00 PM	174.00	11.30	18.50	93.30	74.80	9.40	18.50	19.30	93.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 1:15 PM	201.00	8.10	20.20	9.40	0.00	9.40	19.50	20.20	68.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 1:30 PM	202.00	8.80	30.30	9.40	0.00	9.40	20.60	30.30	87.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 1:45 PM	221.00	11.00	31.50	9.40	0.00	9.40	23.90	31.50	72.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 2:00 PM	220.00	12.50	30.90	9.40	0.00	9.40	25.10	30.90	75.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 2:15 PM	207.00	8.70	34.50	9.40	0.00	9.40	28.80	34.50	71.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 2:30 PM	220.00	8.20	41.60	9.40	0.00	9.40	31.70	41.60	82.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 2:45 PM	203.00	9.50	50.80	9.40	0.00	9.40	38.40	50.80	87.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 3:00 PM	209.00	8.40	44.90	9.40	0.00	9.40	39.10	44.90	81.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 3:15 PM	201.00	8.00	47.20	9.40	0.00	9.40	40.70	47.20	81.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 3:30 PM	229.00	12.80	58.10	9.40	0.00	9.40	61.60	58.10	82.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 3:45 PM	218.00	8.80	86.60	9.40	0.00	9.40	92.20	86.60	191.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 4:00 PM	246.00	8.40	47.50	9.40	0.00	9.40	60.40	47.50	95.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 4:15 PM	245.00	5.80	40.00	9.40	0.00	9.40	50.90	40.00	57.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 4:30 PM	236.00	8.10	39.10	9.40	0.00	9.40	40.10	39.10	50.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 4:45 PM	246.00	7.40	33.50	9.40	0.00	9.40	38.30	33.50	48.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 5:00 PM	234.00	7.00	30.60	9.40	0.00	9.40	40.10	30.60	45.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 5:15 PM	239.00	9.80	31.30	9.40	0.00	9.40	37.00	31.30	43.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 5:30 PM	233.00	8.50	30.10	9.40	0.00	9.40	36.70	30.10	45.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 5:45 PM	239.00	10.00	30.10	9.40	0.00	9.40	36.40	30.10	44.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 6:00 PM	221.00	10.30	29.80	9.40	0.00	9.40	37.20	29.80	44.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 6:15 PM	242.00	7.60	29.50	9.40	0.00	9.40	35.50	29.50	42.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 6:30 PM	238.00	5.50	29.00	9.40	0.00	9.40	34.80	29.00	43.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 6:45 PM	227.00	6.80	28.90	9.40	0.00	9.40	34.10	28.90	44.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 7:00 PM	222.00	8.50	26.80	9.40	0.00	9.40	32.70	26.80	43.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 7:15 PM	215.00	9.10	26.40	9.40	0.00	9.40	32.30	26.40	43.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 7:30 PM	207.00	4.80	26.90	9.40	0.00	9.40	32.20	26.90	43.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 7:45 PM	236.00	6.70	26.80	9.40	0.00	9.40	31.80	26.80	43.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 8:00 PM	239.00	5.70	26.30	9.40	0.00	9.40	30.80	26.30	42.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 8:15 PM	231.00	7.30	25.40	9.40	0.00	9.40	30.20	25.40	42.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 8:30 PM	219.00	7.00	25.60	9.40	0.00	9.40	29.70	25.60	40.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 8:45 PM	222.00	3.70	25.60	0.00	0.00	0.00	29.70	25.60	40.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 9:00 PM	237.00	5.80	25.80	9.40	0.00	9.40	29.50	25.80	40.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 9:15 PM	231.00	5.10	26.40	9.40	0.00	9.40	30.40	26.40	41.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 9:30 PM	227.00	5.20	26.90	9.40	0.00	9.40	30.10	26.90	41.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 9:45 PM	243.00	2.80	27.50	9.40	0.00	9.40	29.70	27.50	41.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 10:00 PM	241.00	5.50	27.50	9.40	0.00	9.40	29.20	27.50	41.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 10:15 PM	221.00	3.70	26.70	9.40	0.00	9.40	28.40	26.70	41.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 10:30 PM	236.00	6.00	27.20	9.40	0.00	9.40	28.10	27.20	41.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 10:45 PM	241.00	4.50	27.00	9.40	0.00	9.40	28.40	27.00	41.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 11:00 PM	258.00	5.60	27.10	9.40	0.00	9.40	29.40	27.10	43.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 11:15 PM	267.00	6.30	29.20	9.40	0.00	9.40	31.30	29.20	43.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 11:30 PM	260.00	7.40	30.30	9.40	0.00	9.40	32.10	30.30	46.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/14 11:45 PM	269.00	6.40	36.60	9.40	0.00	9.40	35.70	36.60	47.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/31/14 12:00 AM	292.00	3.20	50.10	36.10	0.00	9.40	36.10	35.50	50.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/31/14 12:15 AM	259.00	5.10	34.60	9.40	0.00	9.40	36.10	34.60	47.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/31/14 12:30 AM	271.00	5.20	48.10	35.60	0.00	9.40	35.60	35.40	48.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/31/14 12:45 AM	271.00	5.30	49.20	35.80	0.00	9.40	35.80	35.90	49.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/31/14 1:00 AM	291.00	3.60	50.00	37.10	0.00	9.40	37.10	36.70	50.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/31/14 1:15 AM	273.00	5.50	55.10	40.20	0.00	9.40	40.20	39.80	55.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/31/14 1:30 AM	266.00	4.10	39.50	9.40	0.00	9.40	39.30	39.50	51.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/31/14 1:45 AM	253.00	4.30	37.10	9.40	0.00	9.40	38.00	37.10	53.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/31/14 2:00 AM	276.00	4.90	52.20	37.70	0.00	9.40	37.70	36.30	52.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/31/14 2:15 AM	251.00	4.50	45.20	9.40	0.00	9.40	37.90	45.20	51.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/31/14 2:30 AM	281.00	3.80	49.60	36.90	0.00	9.40	36.90	33.60	49.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/31/14 2:45 AM	279.00	5.30	47.60	36.30	0.00	9.40	36.30	33.30	47.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/31/14 3:00 AM	269.00	5.00	34.10	9.40	0.00	9.40	36.80	34.10	47.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/31/14 3:15 AM	277.00	3.80	47.80	37.20	0.00	9.40	37.20	34.70	47.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/31/14 3:30 AM	308.00	2.80	48.00	38.00	0.00	9.40	38.00	35.00	48.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/31/14 3:45 AM	283.00	2.90	46.00	37.10	0.00	9.40	37.10	34.50	46.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/31/14 4:00 AM	285.00	3.50	45.50	36.90	0.00	9.40	36.90	34.90	45.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/31/14 4:15 AM	287.00	3.20	43.80	36.20	0.00	9.40	36.20	34.60	43.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/31/14 4:30 AM	307.00	2.10	44.00	35.80	0.00	9.40	35.80	34.10	44.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/31/14 4:45 AM	304.00	2.60	42.90	35.00	0.00	9.40	35.00	34.00	42.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/31/14 5:00 AM	303.00	3.60	46.40	35.00	0.00	9.40	35.00	32.90	46.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/31/14 5:15 AM	305.00	3.20	53.10	36.40	0.00	9.40	36.40	32.00	53.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/31/14 5:30 AM	317.00	3.30	46.80	35.40	0.00	9.40	35.40	31.80	46.80	0.00	0.00</					



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )							Naphthalene (µg/m <sup>3</sup> )						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
1/31/14 12:45 PM	0.00	1.20	9.40	7.60	0.00	9.40	10.20	7.60	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 1:00 PM	304.00	1.30	13.50	11.00	0.00	0.00	11.00	8.40	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 1:15 PM	317.00	1.70	14.40	12.50	0.00	9.40	12.50	10.50	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 1:30 PM	265.00	0.30	12.50	0.00	0.00	0.00	16.20	12.50	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 1:45 PM	146.00	0.60	16.40	18.40	2.00	9.40	16.40	14.50	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 2:00 PM	358.00	1.30	18.40	16.60	0.00	9.40	16.60	14.50	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 2:15 PM	14.00	0.70	9.40	15.60	6.20	9.40	16.90	15.60	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 2:30 PM	313.00	0.90	19.40	17.30	0.00	9.40	17.30	16.80	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 2:45 PM	323.00	0.60	20.30	18.20	0.00	9.40	18.20	17.00	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 3:00 PM	93.00	0.10	18.80	21.40	2.60	9.40	18.80	18.20	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 3:15 PM	197.00	0.70	24.20	9.40	0.00	9.40	20.20	24.20	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 3:30 PM	253.00	0.70	29.40	9.40	0.00	9.40	25.60	29.40	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 3:45 PM	232.00	2.00	32.00	9.40	0.00	9.40	27.10	32.00	32.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 4:00 PM	232.00	1.40	34.70	9.40	0.00	9.40	30.20	34.70	32.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 4:15 PM	221.00	1.50	33.60	9.40	0.00	9.40	31.80	33.60	33.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 4:30 PM	249.00	3.40	32.80	9.40	0.00	9.40	31.60	32.80	33.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 4:45 PM	233.00	2.20	32.40	9.40	0.00	9.40	30.30	32.40	33.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 5:00 PM	273.00	2.00	31.00	28.90	0.00	9.40	28.90	26.80	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 5:15 PM	270.00	1.10	28.40	28.10	0.00	9.40	28.10	25.50	28.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 5:30 PM	270.00	2.00	28.40	29.60	1.20	9.40	29.60	27.90	28.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 5:45 PM	293.00	1.90	30.50	30.70	0.20	9.40	30.70	30.20	30.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 6:00 PM	264.00	1.50	28.60	9.40	0.00	9.40	30.70	28.60	28.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 6:15 PM	274.00	0.90	30.40	29.20	0.00	9.40	29.20	28.30	30.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 6:30 PM	198.00	0.40	31.70	9.40	0.00	9.40	31.30	31.70	29.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 6:45 PM	302.00	0.30	29.30	30.90	1.60	9.40	30.90	31.70	29.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 7:00 PM	309.00	0.60	27.30	32.20	4.90	9.40	32.20	33.00	27.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 7:15 PM	250.00	0.70	32.90	9.40	0.00	9.40	30.80	32.90	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 7:30 PM	218.00	1.40	32.50	9.40	0.00	9.40	31.80	32.50	27.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 7:45 PM	254.00	1.30	35.10	9.40	0.00	9.40	32.80	35.10	28.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 8:00 PM	253.00	1.20	35.00	9.40	0.00	9.40	33.70	35.00	28.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 8:15 PM	292.00	1.20	29.10	33.70	4.60	9.40	33.70	34.90	29.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 8:30 PM	263.00	1.10	36.00	9.40	0.00	9.40	34.70	36.00	29.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 8:45 PM	279.00	0.90	32.60	36.20	3.60	9.40	36.20	38.80	32.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 9:00 PM	235.00	0.50	40.00	9.40	0.00	9.40	37.20	40.00	32.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 9:15 PM	241.00	0.40	43.50	9.40	0.00	9.40	33.90	43.50	29.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 9:30 PM	282.00	0.90	29.60	31.10	1.50	0.00	31.10	43.10	29.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 9:45 PM	258.00	0.40	41.90	9.40	0.00	9.40	38.00	41.90	28.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 10:00 PM	120.00	0.50	37.50	28.90	0.00	9.40	37.50	40.90	28.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 10:15 PM	218.00	0.50	39.30	9.40	0.00	9.40	34.00	39.30	28.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 10:30 PM	176.00	1.90	30.70	27.80	0.00	9.40	30.70	33.70	27.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 10:45 PM	162.00	2.20	29.20	22.20	0.00	9.40	29.20	30.80	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 11:00 PM	148.00	1.90	29.30	19.40	0.00	9.40	29.30	30.00	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 11:15 PM	202.00	0.80	28.50	9.40	0.00	9.40	26.00	28.50	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 11:30 PM	161.00	1.60	27.10	17.70	0.00	9.40	27.10	29.10	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/14 11:45 PM	54.00	0.40	9.40	27.00	17.60	9.40	28.20	27.00	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00









# IHC CDF Dredge Project : Air Monitoring Alarm Response Log

**Air Monitoring Station:**     M1             M2             M3             M4             Dock

**Air Monitoring Instrument:**

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

Date & Time of alarm: 1/5/2013 to 1/8/2014            Email sent to site Technician?            ((Yes) or No)

Technician responded to the alarm; Scott Peterson

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

2. Alarm caused by:

- Loss of Power
- Loss of Radio Communication
- Out of Calibration
- UV Alignment
- Blockage in Air Tube
- Air Quality
- Other: weather, cold and wind, snow

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

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

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

***Description of Action Taken:***

A) Thermo Unit heaters were unable to keep the enclosures warm with the -20 degrees below zero temperatures. Because north east Indiana was in a state of emergency the technician was unable to respond to air alarms until January 8<sup>th</sup>.

