





US Army Corps  
of Engineers®

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
5-15-13 to 5-21-13

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
5/16/13 1:00 AM	230.00	1.40	39.10	52.40	13.30	52.40	42.00	39.10	45.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 1:15 AM	272.00	1.30	47.30	44.20	0.00	52.30	44.20	42.80	47.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 1:30 AM	336.00	0.10	39.50	41.70	2.20	55.70	41.70	42.90	39.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 1:45 AM	224.00	1.10	42.70	67.80	25.10	67.80	46.60	42.70	41.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 2:00 AM	197.00	0.80	41.80	56.30	14.50	56.30	47.40	41.80	36.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 2:15 AM	142.00	0.60	49.60	37.00	0.00	54.00	49.60	38.70	37.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 2:30 AM	185.00	0.90	38.30	51.90	13.60	51.90	42.70	38.30	38.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 2:45 AM	145.00	1.40	44.70	34.60	0.00	53.50	44.70	39.00	34.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 3:00 AM	180.00	1.00	41.60	53.90	12.30	53.90	67.80	41.60	33.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 3:15 AM	188.00	0.70	44.90	65.10	20.20	65.10	77.60	44.90	36.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 3:30 AM	124.00	0.80	75.00	61.30	0.00	75.60	75.00	60.70	61.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 3:45 AM	209.00	0.60	64.40	78.80	14.40	78.80	63.20	64.40	58.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 4:00 AM	252.00	0.50	58.30	66.90	8.60	66.90	96.30	58.30	65.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 4:15 AM	189.00	1.50	51.70	73.10	21.40	73.10	61.60	51.70	65.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 4:30 AM	287.00	1.00	50.90	53.50	2.60	71.00	53.50	52.30	50.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 4:45 AM	260.00	0.90	50.50	61.60	11.10	61.60	50.20	50.50	64.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 5:00 AM	315.00	0.90	53.60	56.60	3.00	76.30	56.60	51.30	53.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 5:15 AM	217.00	1.20	52.00	59.30	7.30	59.30	57.50	52.00	66.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 5:30 AM	345.00	1.50	56.20	59.90	3.70	64.80	59.90	45.90	56.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 5:45 AM	351.00	1.00	54.80	58.90	4.10	62.60	58.90	47.70	54.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 6:00 AM	328.00	0.90	62.50	59.40	0.00	62.60	59.40	49.60	62.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 6:15 AM	300.00	0.60	71.40	63.50	0.00	71.20	63.50	50.50	71.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 6:30 AM	243.00	1.00	55.30	69.50	14.20	69.50	63.30	55.30	87.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 6:45 AM	222.00	1.00	58.50	70.10	11.60	70.10	62.30	58.50	57.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 7:00 AM	222.00	0.80	54.60	70.60	16.00	70.60	64.60	54.60	71.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 7:15 AM	209.00	1.00	51.20	86.30	35.10	86.30	72.20	51.20	111.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 7:30 AM	179.00	0.30	73.60	100.10	26.50	86.50	73.60	53.30	100.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 7:45 AM	0.00	1.40	86.50	53.90	0.00	86.50	66.80	53.90	84.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 8:00 AM	346.00	1.00	63.60	63.00	0.00	75.00	63.00	56.30	63.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 8:15 AM	260.00	0.50	58.10	76.30	18.20	76.30	60.30	58.10	66.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 8:30 AM	225.00	1.00	52.40	0.00	0.00	0.00	61.20	52.40	70.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 8:45 AM	355.00	0.60	84.70	75.90	0.00	70.20	75.90	54.60	84.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 9:00 AM	304.00	1.50	68.80	105.40	36.60	85.40	105.40	76.10	68.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 9:15 AM	303.00	1.20	67.80	89.90	22.10	67.80	89.90	58.70	67.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 9:30 AM	280.00	0.50	76.30	78.50	2.20	72.50	78.50	68.20	76.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 9:45 AM	252.00	0.60	62.30	69.10	6.80	69.10	81.10	62.30	120.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 10:00 AM	131.00	0.70	82.20	115.00	32.80	76.70	82.20	103.90	115.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 10:15 AM	135.00	3.20	104.10	78.30	0.00	0.00	104.10	64.10	78.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 10:30 AM	137.00	4.10	69.30	81.60	12.30	64.50	69.30	56.70	81.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 10:45 AM	146.00	2.30	79.30	105.40	26.10	61.50	79.30	67.70	105.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 11:00 AM	130.00	3.10	78.90	140.50	61.60	75.80	78.90	79.70	140.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 11:15 AM	108.00	0.90	24.30	136.70	112.40	70.30	24.30	27.10	136.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 11:30 AM	45.00	2.00	44.20	26.50	0.00	44.20	24.10	26.50	64.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 11:45 AM	157.00	1.80	17.20	66.50	49.30	36.40	17.20	24.40	66.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 12:00 PM	92.00	3.40	23.40	62.20	38.80	41.10	23.40	27.50	62.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 12:15 PM	77.00	3.10	47.90	36.80	0.00	47.90	44.80	36.80	77.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 12:30 PM	141.00	3.90	95.60	80.20	0.00	55.80	95.60	51.30	80.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 12:45 PM	153.00	3.10	42.50	87.40	44.90	46.00	42.50	49.60	87.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 1:00 PM	142.00	3.50	144.80	96.90	0.00	56.30	144.80	113.20	96.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 1:15 PM	60.00	4.30	44.00	59.80	15.80	44.00	65.70	59.80	65.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 1:30 PM	136.00	1.80	61.10	47.90	0.00	40.60	61.10	31.10	47.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 1:45 PM	93.00	2.00	71.40	41.40	0.00	40.70	71.40	65.10	41.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 2:00 PM	86.00	4.10	32.40	16.30	0.00	32.40	22.00	16.30	27.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 2:15 PM	26.00	3.00	33.00	19.00	0.00	33.00	25.20	19.00	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 2:30 PM	75.00	3.90	33.90	22.40	0.00	33.90	18.80	22.40	35.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 2:45 PM	106.00	3.40	25.80	35.80	10.00	38.70	25.80	17.10	35.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 3:00 PM	47.00	5.50	39.80	22.90	0.00	39.80	23.20	22.90	34.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 3:15 PM	41.00	6.40	37.90	45.00	7.10	37.90	41.10	45.00	74.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 3:30 PM	46.00	5.30	33.20	22.90	0.00	33.20	20.70	22.90	39.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 3:45 PM	35.00	4.10	37.30	28.20	0.00	37.30	28.00	28.20	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 4:00 PM	22.00	4.60	0.00	49.20	0.00	0.00	38.30	49.20	55.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 4:15 PM	28.00	5.20	34.20	32.90	0.00	34.20	38.00	32.90	51.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 4:30 PM	36.00	5.10	34.20	31.20	0.00	34.20	36.40	31.20	41.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 4:45 PM	43.00	5.90	34.90	37.40	2.50	34.90	26.20	37.40	35.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 5:00 PM	40.00	6.80	38.80	38.60	0.00	38.80	36.50	38.60	51.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 5:15 PM	44.00	6.00	33.80	27.60	0.00	33.80	37.90	27.60	78.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 5:30 PM	92.00	4.10	45.30	47.80	2.50	33.50	45.30	32.90	47.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 5:45 PM	96.00	3.70	36.30	40.90	4.60	32.90	36.30	46.30	40.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/16/13 6:00 PM	124.00	3.40	2													



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
5/17/13 1:45 AM	0.00	2.20	58.60	35.60	0.00	58.60	69.50	35.60	37.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 2:00 AM	348.00	1.40	25.70	75.00	49.30	41.70	75.00	30.10	25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 2:15 AM	347.00	1.30	41.70	28.90	0.00	34.50	28.90	20.40	41.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 2:30 AM	348.00	1.20	13.90	14.70	0.80	31.00	14.70	14.40	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 2:45 AM	99.00	0.80	14.40	12.00	0.00	32.10	14.40	12.10	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 3:00 AM	245.00	1.60	11.80	31.20	19.40	31.20	15.20	11.80	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 3:15 AM	243.00	1.40	11.80	31.50	19.70	31.50	10.20	11.80	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 3:30 AM	358.00	1.10	10.30	9.30	0.00	0.00	9.30	11.80	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 3:45 AM	349.00	1.10	14.40	15.60	1.20	32.70	15.60	12.20	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 4:00 AM	348.00	1.90	24.90	28.80	3.90	40.70	28.80	14.40	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 4:15 AM	32.00	2.00	38.90	19.10	0.00	38.90	21.70	19.10	33.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 4:30 AM	36.00	2.70	34.90	19.50	0.00	34.90	22.60	19.50	24.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 4:45 AM	26.00	1.00	36.10	18.90	0.00	36.10	20.40	18.90	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 5:00 AM	15.00	1.50	38.30	19.90	0.00	38.30	38.50	19.90	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 5:15 AM	346.00	1.70	22.00	33.40	11.40	37.10	33.40	18.90	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 5:30 AM	45.00	2.20	34.70	23.50	0.00	34.70	34.10	23.50	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 5:45 AM	40.00	2.70	36.60	21.60	0.00	36.60	37.80	21.60	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 6:00 AM	51.00	1.70	33.70	17.50	0.00	33.70	32.20	17.50	25.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 6:15 AM	123.00	0.70	24.20	14.40	0.00	29.40	24.20	18.50	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 6:30 AM	135.00	2.30	26.70	15.90	0.00	32.60	26.70	16.40	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 6:45 AM	145.00	1.90	36.60	36.10	0.00	35.00	36.60	17.80	36.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 7:00 AM	109.00	1.10	32.80	37.50	4.70	35.80	32.80	22.90	37.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 7:15 AM	149.00	1.80	43.80	59.40	15.60	44.00	43.80	34.20	59.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 7:30 AM	135.00	2.40	78.60	64.50	0.00	60.80	78.60	44.50	64.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 7:45 AM	132.00	1.70	52.20	95.10	42.90	54.70	52.20	59.80	95.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 8:00 AM	163.00	2.80	44.60	64.20	19.60	35.60	44.60	48.50	64.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 8:15 AM	158.00	2.10	54.70	38.50	0.00	38.40	54.70	42.40	38.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 8:30 AM	169.00	2.80	69.70	65.40	0.00	52.60	69.70	49.90	65.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 8:45 AM	168.00	2.30	67.10	78.20	11.10	55.10	67.10	50.20	78.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 9:00 AM	175.00	2.70	86.90	84.40	0.00	59.90	86.90	79.80	84.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 9:15 AM	194.00	2.40	54.30	57.30	3.00	57.30	129.40	54.30	81.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 9:30 AM	211.00	2.20	53.80	57.60	3.80	57.60	74.10	53.80	81.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 9:45 AM	167.00	2.60	70.50	73.30	2.80	73.80	70.50	48.60	73.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 10:00 AM	179.00	2.60	41.30	65.20	23.90	52.90	41.30	43.80	65.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 10:15 AM	197.00	1.40	39.80	50.50	10.70	50.50	44.70	39.80	53.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 10:30 AM	182.00	1.30	37.20	53.80	16.60	53.80	40.00	37.20	46.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 10:45 AM	168.00	2.50	36.40	41.80	5.40	53.10	36.40	34.80	41.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 11:00 AM	167.00	1.30	41.20	45.50	4.30	57.30	41.20	46.00	45.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 11:15 AM	144.00	1.80	60.70	48.90	0.00	51.20	60.70	36.50	48.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 11:30 AM	133.00	2.00	41.40	52.20	10.80	52.20	41.40	36.20	52.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 11:45 AM	156.00	1.70	41.50	56.10	14.60	53.80	41.50	50.80	56.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 12:00 PM	149.00	1.20	46.60	66.30	19.70	53.70	46.60	36.20	66.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 12:15 PM	358.00	1.10	70.20	46.20	0.00	55.10	46.20	38.10	70.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 12:30 PM	359.00	1.40	61.40	36.30	0.00	50.80	36.30	37.40	61.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 12:45 PM	7.00	8.90	52.50	37.90	0.00	52.50	45.10	37.90	70.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 1:00 PM	18.00	8.10	49.70	38.80	0.00	49.70	46.40	38.80	96.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 1:15 PM	18.00	8.70	68.10	97.40	29.30	68.10	75.30	97.40	80.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 1:30 PM	21.00	8.00	65.20	57.80	0.00	65.20	87.20	57.80	83.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 1:45 PM	19.00	9.00	69.10	61.20	0.00	69.10	89.40	61.20	110.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 2:00 PM	17.00	7.00	48.80	49.80	1.00	48.80	66.60	49.80	68.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 2:15 PM	24.00	6.90	49.80	42.10	0.00	49.80	55.70	42.10	67.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 2:30 PM	29.00	6.00	44.30	35.00	0.00	44.30	45.80	35.00	67.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 2:45 PM	37.00	5.10	44.80	32.10	0.00	44.80	49.00	32.10	70.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 3:00 PM	47.00	4.70	42.40	34.60	0.00	42.40	29.10	34.60	57.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 3:15 PM	19.00	4.30	38.70	32.50	0.00	38.70	32.90	32.50	55.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 3:30 PM	30.00	3.50	40.10	33.30	0.00	40.10	37.20	33.30	55.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 3:45 PM	39.00	5.50	39.70	39.20	0.00	39.70	30.80	39.20	73.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 4:00 PM	23.00	4.60	39.70	37.90	0.00	39.70	34.70	37.90	71.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 4:15 PM	35.00	4.40	37.90	38.40	0.50	37.90	36.80	38.40	65.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 4:30 PM	275.00	4.50	54.90	33.90	0.00	42.90	33.90	41.60	54.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 4:45 PM	328.00	2.40	53.80	30.40	0.00	42.90	30.40	45.90	53.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 5:00 PM	3.00	4.00	35.70	40.60	4.90	35.70	30.30	40.60	52.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 5:15 PM	2.00	2.70	34.10	37.40	3.30	34.10	40.80	37.40	52.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 5:30 PM	4.00	3.30	37.60	31.20	0.00	37.60	27.50	31.20	44.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 5:45 PM	18.00	4.50	31.30	24.90	0.00	31.30	23.10	24.90	43.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 6:00 PM	12.00	4.20	0.00	48.20	0.00	0.00	32.60	48.20	43.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 6:15 PM	17.00	3.30	36.60	31.70	0.00	36.60	39.00	31.70	51.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 6:30 PM	49.00	6.90	37.00	34.70	0.00	37.00	42.70	34.70	58.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/13 6:45 PM	37.00	5.10	40.50	38.90	0.00	40.50	48.8									







US Army Corps of Engineers

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
5-15-13 to 5-21-13

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
5/20/13 4:00 AM	197.00	3.90	51.00	61.10	10.10	61.10	53.00	51.00	54.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 4:15 AM	217.00	6.00	50.80	70.80	20.00	70.80	53.70	50.80	53.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 4:30 AM	210.00	4.20	47.80	71.90	24.10	71.90	49.30	47.80	49.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 4:45 AM	210.00	5.20	43.70	67.80	24.10	67.80	44.70	43.70	44.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 5:00 AM	212.00	4.00	41.10	67.00	25.90	67.00	38.90	41.10	41.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 5:15 AM	206.00	5.70	37.70	138.60	100.90	138.60	35.30	37.70	38.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 5:30 AM	0.00	0.00	0.00	0.00	0.00	6888.70	31.40	35.20	34.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 5:45 AM	204.00	5.90	30.20	8164.90	8134.70	8164.90	27.00	30.20	30.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 6:00 AM	194.00	5.60	27.90	8434.30	8406.40	8434.30	23.50	27.90	26.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 6:15 AM	210.00	6.30	25.90	8439.40	8413.50	8439.40	22.70	25.90	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 6:30 AM	207.00	4.80	24.90	8435.00	8410.10	8435.00	21.00	24.90	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 6:45 AM	209.00	5.80	24.90	8419.00	8394.10	8419.00	20.40	24.90	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 7:00 AM	210.00	5.50	24.40	8359.70	8335.30	8359.70	20.20	24.40	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 7:15 AM	216.00	7.00	24.40	8326.80	8302.40	8326.80	20.20	24.40	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 7:30 AM	218.00	4.80	24.30	8319.40	8295.10	8319.40	20.80	24.30	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 7:45 AM	218.00	7.00	24.20	8220.50	8196.30	8220.50	20.40	24.20	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 8:00 AM	218.00	7.40	24.10	8278.10	8254.00	8278.10	20.60	24.10	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 8:15 AM	220.00	7.60	24.40	8314.90	8290.50	8314.90	19.90	24.40	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 8:30 AM	225.00	3.60	24.10	8345.10	8321.00	8345.10	22.60	24.10	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 8:45 AM	198.00	3.50	22.90	8554.00	8531.10	8554.00	19.60	22.90	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 9:00 AM	203.00	3.70	20.30	8874.90	8854.60	8874.90	18.30	20.30	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 9:15 AM	186.00	4.50	19.20	9376.40	9357.20	9376.40	15.30	19.20	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 9:30 AM	186.00	4.70	16.80	9422.70	9405.90	9422.70	14.00	16.80	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 9:45 AM	187.00	5.30	13.30	10469.90	10456.60	10469.90	9.40	13.30	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 10:00 AM	192.00	6.00	11.10	11192.60	11181.50	11192.60	7.40	11.10	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 10:15 AM	206.00	7.20	11.50	11177.50	11166.00	11177.50	8.40	11.50	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 10:30 AM	181.00	6.70	14.70	10849.00	10834.30	10849.00	11.90	14.70	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 10:45 AM	179.00	5.60	15.10	14.60	0.00	10877.40	15.10	17.80	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 11:00 AM	185.00	4.90	17.70	11069.30	11051.60	11069.30	16.50	17.70	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 11:15 AM	200.00	5.10	15.40	11311.50	11116.10	11311.50	13.80	15.40	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 11:30 AM	220.00	7.80	15.80	11236.10	11220.30	11236.10	15.80	15.80	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 11:45 AM	214.00	9.60	17.30	11264.60	11247.30	11264.60	21.60	17.30	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 12:00 PM	210.00	8.70	16.00	11259.70	11243.70	11259.70	12.90	16.00	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 12:15 PM	202.00	8.70	16.30	11297.80	11281.50	11297.80	13.50	16.30	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 12:30 PM	213.00	5.50	15.80	11336.60	11320.80	11336.60	14.10	15.80	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 12:45 PM	229.00	6.90	22.00	11332.70	11310.70	11332.70	17.40	22.00	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 1:00 PM	199.00	6.40	23.30	11350.20	11326.90	11350.20	18.60	23.30	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 1:15 PM	243.00	10.10	15.30	11347.90	11332.60	11347.90	15.20	15.30	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 1:30 PM	230.00	8.60	20.50	11349.50	11329.00	11349.50	22.90	20.50	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 1:45 PM	195.00	9.30	14.20	11347.50	11333.30	11347.50	25.80	14.20	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 2:00 PM	215.00	9.20	15.00	11352.50	11337.50	11352.50	76.20	15.00	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 2:15 PM	208.00	8.90	16.90	11363.70	11346.80	11363.70	17.20	16.90	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 2:30 PM	212.00	9.50	21.40	11366.30	11344.90	11366.30	41.40	21.40	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 2:45 PM	219.00	9.00	24.20	11371.10	11346.90	11371.10	25.70	24.20	143.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 3:00 PM	207.00	8.60	20.80	11393.90	11373.10	11393.90	19.20	20.80	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 3:15 PM	229.00	6.70	23.50	11395.90	11372.40	11395.90	24.10	23.50	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 3:30 PM	225.00	8.70	27.20	11390.20	11363.00	11390.20	38.30	27.20	31.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 3:45 PM	208.00	9.70	26.00	11399.50	11373.50	11399.50	37.30	26.00	38.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 4:00 PM	235.00	7.20	32.10	11402.70	11370.60	11402.70	59.90	32.10	63.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 4:15 PM	247.00	7.70	32.10	11402.00	11369.90	11402.00	42.10	32.10	41.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 4:30 PM	235.00	7.80	37.10	11402.00	11364.90	11402.00	46.50	37.10	50.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 4:45 PM	225.00	8.30	36.60	11402.00	11365.40	11402.00	71.70	36.60	54.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 5:00 PM	224.00	6.50	27.70	11401.80	11374.10	11401.80	50.40	27.70	56.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 5:15 PM	219.00	7.50	25.10	11401.80	11376.70	11401.80	43.70	25.10	56.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 5:30 PM	221.00	8.70	27.50	11401.80	11374.30	11401.80	51.50	27.50	72.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 5:45 PM	210.00	6.60	84.80	11401.70	11316.90	11401.70	34.70	84.80	52.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 6:00 PM	219.00	5.90	60.10	11401.70	11341.60	11401.70	38.60	60.10	48.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 6:15 PM	213.00	6.80	43.60	11401.50	11357.90	11401.50	39.00	43.60	43.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 6:30 PM	221.00	6.50	43.30	11401.40	11358.10	11401.40	31.30	43.30	43.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 6:45 PM	219.00	5.30	35.10	11401.50	11366.40	11401.50	31.90	35.10	39.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 7:00 PM	239.00	6.10	35.90	11401.70	11365.80	11401.70	30.40	35.90	40.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 7:15 PM	213.00	4.70	34.20	11401.30	11367.10	11401.30	34.90	34.20	43.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 7:30 PM	211.00	5.50	33.50	11401.10	11367.60	11401.10	33.40	33.50	42.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 7:45 PM	215.00	5.30	47.40	11401.30	11353.90	11401.30	38.50	47.40	48.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 8:00 PM	207.00	6.20	51.90	11401.20	11349.30	11401.20	37.10	51.90	52.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/13 8:15 PM	200.00	5.70	35.10	11401.70	1136											

