

February 27, 2008

The Dow Chemical Company 3200-3300 Kanawha Turnpike South Charleston, WV 25303 USA

Larry Rosenmann New York State Department of Environmental Conservation Division of Solid and Hazardous Materials 625 Broadway, 9th Floor Albany, NY 12233-7258

Subject: AOC C - Gorham Street Soil Sampling Results Technical Memorandum Former Hampshire Chemical Corporation Waterloo, New York

Dear Mr. Rosenmann:

The Dow Chemical Company is pleased to submit the attached *AOC C – Gorham Street Soil Sampling Results Technical Memorandum* for the Former Hampshire Chemical Corporation facility in Waterloo, New York. This sampling event was conducted according to the original Work Plan addendum submitted on May 15, 2007 to NYSDEC and NYSDOH. The technical memorandum includes a summary of the field sampling activities performed in August 2007, as well as findings, discussion and recommendations.

Please contact me at 304-747-7788 if you have any questions or comments.

Sincerely,

Jenne E. Colas

Jerome Cibrik, P.G. Remediation leader

cc: Mr. Pete Hoffmire, NYSDEC Region 8 Mr. Scott Foti, NYSDEC Region 8 Ms. Rebecca Quail, NYSDEC Mr. Mark Sergott, NYSDOH Mr. Steve Brusso, Evans Chemetics (cover letter only) CH2M HILL Project File

AOC C - Gorham Street Soil Sampling Results Former Hampshire Chemical Corporation Facility, Waterloo, New York

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DATE:	February 26, 2008

Introduction

This technical memorandum presents the results of soil sampling activities at Area of Concern (AOC) C – Gorham Street related to the former Hampshire Chemical Corporation (HCC) Facility in Waterloo, New York. The activities and results of the investigation completed were conducted pursuant to the Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Work Plan Addendum (CH2M HILL 2007). The RFI is being conducted pursuant to an Amended Administrative Consent Order (AACO) executed between HCC and the New York State Department of Environmental Conservation (NYSDEC) (Index Number 8-20000218-3281, June 1, 2004).

As previously reported in the Sampling Visit Report (OBG 2003), post-excavation soil sampling analytical results from a foundation excavation conducted in October 1999 revealed exceedances of polychlorinated biphenyls (PCBs), 10 semivolatile organic compounds (SVOCs), and certain metals above the New York State Technical and Administrative Guidance Memorandum (TAGM) 4046 criteria¹. This area was then further characterized by limited delineation activities in December 2001 (OBG 2003), and more extensive investigation activities in April 2004 and December 2005 (CH2M HILL 2006). Overall, soil borings and soil sampling were completed along the west side of Gorham Street to evaluate the lateral and vertical extents of potential contamination in soil. Results from these samples confirmed the presence of PCBs, SVOCs, and certain metals above TAGM 4046 criteria in surface and subsurface soil (CH2M HILL 2006).

CH2M HILL collected additional soil samples along Gorham Street at eight locations (SS-14 through SS-21) on August 14, 2007: one sample was collected south of the facility exit near Building 1 (on the west side of Gorham Street); three samples were collected adjacent to the employee parking lot (on the east side of Gorham Street, across the street from the area with the highest PCB concentrations); and four samples were collected along the right-of-way

¹ During the time of this evaluation, TAGM was the criteria to which soil sample results were compared. The new screening criteria, NYSDEC Restricted Use Soil Cleanup Objectives (RUSCO) (6 NYCRR Part 375-6), was promulgated on December 14, 2006. As requested by NYSDEC, the NYSDEC RUSCO Residential will now be used for evaluating all data in this AOC.

adjacent to the residential properties (on the east side of Gorham Street, across the street from areas where PCBs were detected in soil). At each sample location, two samples were collected: one from 0 to 2 inches deep (samples with an "A" suffix) and one from 2 to 12 inches deep (samples with a "B" suffix).² Figure 1 illustrates the locations of the soil samples collected in August 2007.

Sampling Procedures

At each soil sample location, two soil samples (0- to 2-inch and 2- to 12-inch depth intervals) were collected. At some locations, compacted gravel limited the final depth of the deeper depth interval. Soil samples were collected and composited from within a 1-square-foot area to provide sufficient volume for analysis, with the exception of volatile organic compounds (VOCs), which were sampled discretely.

Prior to collecting the soil samples, the surface was cleared of grass, gravel, and other debris. VOC samples were collected directly from the newly exposed surface with an EnCore[®] sampling device. Sample collection for other parameters was attempted with a decontaminated³, stainless steel hand auger, but the use of a decontaminated, stainless steel trowel was necessary due to the gravel. After sample collection, the sample locations were recorded with coordinates surveyed using a Magellan eXplorist 200[®] global positioning system (GPS) along with a hand-sketched drawing including measurements.

Laboratory Analysis

Soil samples were submitted to Kemron Environmental Services (Kemron), a New York State-certified laboratory, with an executed chain-of-custody via Federal Express where they were analyzed for U.S. Environmental Protection Agency (USEPA) SW-846 Target Compound List (TCL) VOCs (Method 8260), TCL SVOCs (Method 8270), PCBs (Method 8082), and Total Analyte List (TAL) metals (6000/7000 Series Methods).

Quality Control Samples

Quality assurance (QA)/quality control (QC) samples were collected in accordance with the Quality Assurance Project Plan as prepared by O'Brien and Gere (2001) and as updated by CH2M HILL (2004). QA/QC samples comprised one duplicate soil sample (Dup-SS) collected at SS-21A; one matrix spike/matrix spike duplicate soil sample, which was collected at location SS-18B; one equipment blank; and one trip blank to accompany the equipment blank.

Data Quality Evaluation

A data quality evaluation (DQE) was performed to assess the data quality of analytical results for the soil samples collected. Guidance for this DQE report came from the USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Data

 $^{^2}$ As noted further in this memorandum, some samples depths were limited to 2 to 7 inches deep due to subsurface obstructions.

³ Decontamination was performed by washing with Alconox[™] and tap water, then rinsed with tap water, and a final rinse with deionized water and allowed to air dry.

Review (USEPA 1999), the USEPA CLP NFG for Inorganic Data Review (2004), and individual method requirements. The analytical results were evaluated using the criteria of precision, accuracy, representativeness, comparability and completeness (PARCC).

Based on the QA/QC evaluation, all data were considered valid with the exception of the VOC data for sample SS-18B, which were rejected for project use due to internal standard issues. The completeness goal of 100 percent as established in the QAPP (OBG 2001) was met for all analytes with the exception of the VOC data, which were 94 percent complete.

2007 Soil Sample Analytical Results

Table 1 presents a summary of the 2007 sample analytical results. According to direction from NYSDEC, the sample results were screened against the NYSDEC Restricted Use Soil Cleanup Objectives (RUSCO): Protection of Public Health, Residential (6 NYCRR Part 375-6.8(b)). Results exceeding the RUSCO Residential for organics are provided on Figure 2 and for metals on Figure 3.

Results from the 2007 samples indicate the following:

- No VOCs, SVOCs, or PCBs exceeded the RUSCO Residential in the samples collected at the eight locations. With the exception of arsenic and cadmium (as discussed below) no metals exceeded the RUSCO Residential.
- Arsenic exceeded the RUSCO Residential of 16 milligrams per kilogram (mg/kg) at two locations, SS-19 and SS-20. Exceedances ranged from 17 mg/kg at SS-20A to 33.4 mg/kg at SS-20B. At SS-19B, the arsenic exceedance was detected in the deeper sample (2 to 12 inches deep). At SS-20, the exceedances were detected in both the shallow and deeper samples, with the higher concentration seen in the deeper sample.
- Cadmium exceeded the RUSCO Residential of 2.5 mg/kg in both the shallow and deep samples collected at SS-20. Cadmium was detected at a higher concentration in the deeper sample at this location, with a concentration of 6.17 mg/kg.

Comparison of Historical and 2007 Soil Sample Results

The results of all soil samples collected along Gorham Street exceeding the new RUSCO Residential are shown on Figures 2 and 3 (organics and metals, respectively). These results were compared to the results of the additional samples collected in 2007 to determine the extent of any exceedances seen during historical events. Below is a summary of the results for the events.

• PCBs were detected over the RUSCO Residential at 12 locations, all along the western side of Gorham Street. The locations are as follows:

_	AOCC-EX2-Wall (18 to 30 inches)	_	SS-06 (0 to 1.92 inches)
_	SB-01A (0 to 24 inches)	_	SS-09 (0 to 1.92 inches)
_	SB-01B (0 to 24 inches)	_	SS-10 (0 to 1.92 inches)
_	SB-02 (72 to 96 inches)	_	SS-11 (0 to 1.92 inches)
_	SB-18 (1.92 to 12 inches)	_	SS-12 (0 to 1.92 inches)

– SB-20 (2 to 12 inches)

- SS-13 (0 to 1.92 inches)

The PCBs are delineated to the north (by samples SS-04, SS-03, SS-02, and SS-01), to the south (by SS-21), and to the east (by all samples east of Gorham Street collected during $2007)^4$.

- Arsenic was detected at 10 locations exceeding the RUSCO Residential, eight on the west side (AOCC-EX2-Wall [18 to 30 inches], SB-01A [0 to 24 inches], SB-02 [72 to 96 inches], SB-02B [0 to 24 inches], SB-20 [2 to 12 and 84 to 108 inches], SS-09 [0 to 1.92 inches], SS-10 [0 to 1.92 inches], and SS-13 [0 to 1.92 inches]) and two on the east side (SS-19 [2 to 12 inches] and SS-20 [0 to 2 inches and 2 to 12 inches]) of Gorham Street. On the west side of Gorham Street, arsenic is delineated to the north (by samples SB-19, SS-08, SS-07, SS-06, as well as many others) and to the south (by SS-21). On the east side of Gorham Street, arsenic is delineated to the north (by samples SS-17, SS-16, SS-15, and SS-14).
- Barium was marginally detected above the RUSCO Residential at one location (SB-20 at 108 to 132 inches) along the western side of Gorham Street. Due to the isolated area of barium, it is believed that barium is not related to site operations.
- Cadmium was detected at five locations exceeding the RUSCO Residential, four on the west side (AOCC-EX2-Wall [18 to 30 inches], SB-02 [72 to 96 inches], SB-20 [36 to 60 inches], and SS-10 [0 to 1.92 inches]) and one on the east side (SS-20 at 0 to 2 inches and 2 to 8 inches) of Gorham Street. These exceedances are sporadic and have been seen at different depths. Based on the concentrations and locations, it is believed that cadmium is not related to site operations.
- Lead was detected above the RUSCO Residential at one location (AOCC-EX2-Wall at 18 to 30 inches) along the western side of Gorham Street. Due to the isolated area of lead, it is believed that lead is not related to site operations.
- Mercury was detected above the RUSCO Residential at two locations (SB-20 at 36 to 60 inches and SS-11 at 0 to 1.92 inches) along the western side of Gorham Street. Mercury is delineated to the north (by samples SB-02, SB-01B, SB-02A, SS-10, as well as many others), to the south (by SS-13 and SS-21), and to the east (by all samples collected east of Gorham Street during 2007).
- Zinc was detected above the RUSCO Residential at two locations (AOCC-EX2-Wall at 36 to 60 inches and SS-10 at 0 to 1.92 inches) along the western side of Gorham Street. Due to the isolated areas of zinc exceedances, it is believed that zinc is not related to site operations.
- Ten SVOCs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, hexachlorobenzene, indeno(1,2,3-c,d)pyrene and pyrene) exceeded the RUSCO Residential at 15 locations along the western side of the site. The SVOCs are delineated to the north (by samples SS-04, SS-03, SS-02, and SS-01), to the south (by SS-21), and to the east (by all samples collected during 2007). It is possible these constituents may be related to historical site operations, from paving of Gorham Street, or both.

⁴ PCBs, as well as arsenic and mercury, are bounded to the west by the presence of the existing facility structures.

Summary of Historical and Recent Results

Table 2 presents the compounds/analytes detected on Gorham Street, and data to support if that compound/analyte is believed to be site related. The rationale for determining if a compound/analyte is site related is based on the results of the samples collected on Gorham Street, site operations, and background conditions.

Compound	Site-Related Compound (Yes/No/Maybe)	Rationale
PCBs	Yes	Detected above the RUSCO Residential along the western portion of Gorham Street only, adjacent to the site.
Arsenic	Maybe	Detected above the RUSCO Residential, located within the area of PCB impacts as described above, and one area along the eastern portion Gorham Street, adjacent to the facility parking lot.
Barium	No	Only detected above the RUSCO Residential at one location at depth. Not detected at any other location of other site-related compounds (such as PCBs).
Cadmium	No	Sporadic locations and depths of cadmium exceed the RUSCO Residential, located within the area of PCB impacts as described above, and one area along the eastern portion of Gorham Street, adjacent to the facility parking lot.
Lead	No	Only detected above the RUSCO Residential at one location at depth. Located within the area of PCB impacts as described above.
Mercury	Maybe	Only detected above the RUSCO Residential at two locations, located within the area of PCB impacts as described above.
Zinc	No	Isolated sample locations exceeded the RUSCO Residential. Located within the area of PCB impacts as described above.
Benzo(a)anthracene	Maybe	Detected above the RUSCO Residential consistently with locations of PCBs; however, it is acknowledged that some detectable concentrations of these compounds may be related to Gorham Street road use.
Benzo(a)pyrene	Maybe	Detected above the RUSCO Residential consistently with locations of PCBs; however, it is acknowledged that some detectable concentrations of these compounds may be related to Gorham Street road use.
Benzo(b)fluoranthene	Maybe	Detected above the RUSCO Residential consistently with locations of PCBs; however, it is acknowledged that some detectable concentrations of these compounds may be related to Gorham Street road use.
Benzo(k)fluoranthene	Maybe	Detected above the RUSCO Residential consistently with locations of PCBs; however, it is acknowledged that some detectable concentrations of these compounds may be related to Gorham Street road use.

 TABLE 2

 Detected Compound/Analyte Summary

Compound	Site-Related Compound (Yes/No/Maybe)	Rationale
Chrysene	Maybe	Detected above the RUSCO Residential consistently with locations of PCBs; however, it is acknowledged that some detectable concentrations of these compounds may be related to Gorham Street road use.
Dibenzo(a,h)anthracene	Maybe	Detected above the RUSCO Residential consistently with locations of PCBs; however, it is acknowledged that some detectable concentrations of these compounds may be related to Gorham Street road use.
Fluoranthene	Maybe	Detected above the RUSCO Residential consistently with locations of PCBs; however, it is acknowledged that some detectable concentrations of these compounds may be related to Gorham Street road use.
Hexachlorobenzene	Maybe	Detected above the RUSCO Residential consistently with locations of PCBs; however, it is acknowledged that some detectable concentrations of these compounds may be related to Gorham Street road use.
Indeno(1,2,3-c,d)pyrene	Maybe	Detected above the RUSCO Residential consistently with locations of PCBs; however, it is acknowledged that some detectable concentrations of these compounds may be related to Gorham Street road use.
Pyrene	Maybe	Detected above the RUSCO Residential consistently with locations of PCBs; however, it is acknowledged that some detectable concentrations of these compounds may be related to Gorham Street road use.

TABLE 2

Detected Compound/Analyte Summary

When looking at the area of exceedances from site-related impacts, the area on the western side of Gorham Street generally extends between samples SB-18 and SS-13. The area on the eastern side of Gorham Street extends between samples SS-19 and SS-20, and is adjacent to the facility parking lot.

Conclusions

The soils impacted by PCBs, SVOCs, arsenic, and mercury are limited to the area along the western portion of Gorham Street only and have been delineated. The soils impacted by arsenic also are contained in this area, but also are present in a limited area along the eastern portion of Gorham Street, adjacent to the employee parking lot. There are no PCBs, SVOCs, arsenic, or mercury detected above the RUSCO Residential along the eastern side of Gorham Street; therefore, no additional investigation will be performed in this AOC. A corrective measures work plan will be prepared to evaluate and propose corrective measures for this area.

References

CH2M HILL. 2004. RCRA Facility Investigation Work Plan, Hampshire Chemical Corporation, Waterloo, New York. February.

CH2M HILL. 2006. RCRA Facility Investigation, Evans Chemetics Facility, Waterloo, New York. May.

CH2M HILL. 2007. RCRA Facility Investigation Work Plan Addendum, Hampshire Chemical Corporation, Waterloo, New York. May.

New York State Department of Environmental Conservation (NYSDEC). 1994. Technical and Administrative Guidance Memorandum (TAGM) 4046: Recommended Soil Cleanup Objectives. January 1994, as amended.

New York State Department of Environmental Conservation (NYSDEC). 2006. Environmental Remediation Programs. NYSDEC Restricted Use Soil Cleanup Objectives (RUSCO): Protection of Public Health, Residential (6 NYCRR Part 375-6.8(b)). December.

O'Brien & Gere (OBG). 2001. Sampling Visit Work Plan, Hampshire Chemical Corporation Facility, Waterloo, New York. October.

O'Brien & Gere (OBG). 2003. Sampling Visit Report, Hampshire Chemical Corporation Facility, Waterloo, New York. September.

U.S. Environmental Protection Agency (USEPA). 1999. USEPA Contract Laboratory Program, National Functional Guidelines for Organic Data Review. October.

U.S. Environmental Protection Agency (USEPA). 2004. USEPA Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review. October.

Table 1 AOC C - Gorham Street Soil Sample Results Hampshire Chemical Corporation, Waterloo, New York

Field Sample ID	NYSDEC	SS-14A	SS-14B	SS-15A	SS-15B	SS-16A	SS-16B	SS-17A	SS-17B	SS-18A	SS-18B	SS-19A	SS-19B	SS-20A	SS-20B	DUP-SS	SS-21A	SS-21B	SS-18B-MS	SS-18B-MSD
Location ID	Residential	SS-14	SS-14	SS-15	SS-15	SS-16	SS-16	SS-17	SS-17	SS-18	SS-18	SS-19	SS-19	SS-20	SS-20	SS-21	SS-21	SS-21	SS-18	SS-18
Depth Interval	Restricted	0-2 IN	2-7 IN	0-2 IN	2 - 7 IN	0-2 IN	2-7 IN	0-2 IN	2-12 IN	0-2 IN	2 - 7 IN	0-2 IN	2 - 12 IN	0-2 IN	2-8 IN	0-2 IN	0-2 IN	2 - 11 IN	2 - 7 IN	2 - 7 IN
Sample Date	Use	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007
Sample Type		Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Duplicate	Normal	Normal	MS	SD
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals (mg/kg)																				
Aluminum		2000	2150	1700	2420	3430	2720	3560	2480	6370	4450	3490	2870	4180	6020	6590	6330	6390	6620	5870
Antimony		1.01 U	1.04 U	0.986 U	1.03 U	1.02 U	1.03 U	0.996 U	1.01 U	1.03 U	1.04 U	1.03 U	1.06 U	1 U	1.05 U	1.03 U	1.05 U	1.05 U	0.618 J	0.581 J
Arsenic	16	6.36	6.36	5.67	7.61	11.3	6.3	5.9	7.7	5.16 U	4.26 J	9.83	31.3	17	33.4	10.6	9.92	9.12	13.8	13.4
Barium	350	34.9	24.7	17.4	47.5	14.1	22	37	23.6	28.5	21.3	52.2	80.2	44.8	82.8	43.4	41.7	38.7	42.7	42.7
Beryllium	14	0.0764 J	0.0636 J	0.0268 J	0.0838 J	0.138 J	0.102 J	0.146 J	0.062 J	0.205 J	0.0969 J	0.17 J	0.496	0.173 J	0.43	0.258 J	0.251 J	0.238 J	0.991	0.93
Cadmium	2.5	0,396	0.33 J	0.37 J	0.376 J	0.244 J	0.385 J	0.674	0.385	0.154 J	0.162 J	0.852	0.449	2.87	6.17	0.703	0.685	0.67	1.06	1.01
Calcium		223000	247000	254000	252000	222000	211000	174000	243000	7480	128000	154000	30300	157000	64200	33600	32200	59000	121000	140000
Chromium	36	5.12	4.62	3.6	4.24	5.44	5.08	9.14	5.73	7.02	4.92	9.54	5.84	14.6	21.8	13.5	13.6	11.9	14.8	13.7
Cobalt		4.97	6.68	5.68	7.46	10.8	7.42	6.96	6.03	2.32 J	3.51 J	5.31	3.68 J	5.01	8.47	3.85 J	3.81 J	3.68 J	7.47	6.46
Copper	270	21.8	15.8	16.8	16.9	13.3	20.6	31.5	19	6.56	8.4	47.5	43.6	182	151	32.1	34.9	26	18.6	19.2
Iron		7140	5740	5420	6090	7470	10200	8550	6220	8030	5890	9740	7950	9400	18700	9710	9160	9240	6910	5920
Lead	400	26.7	26	30.3	24.2	20.8	104	86.4	65.2	10.5	14.3	336	96.7	215	303	102	89.2	94.4	23.6	23.5
Magnesium		12300	13000	14200	12900	15100	11500	12400	11800	1690	5760	14300	3190	16400	15700	5990	5990	6340	7550	7900
Manganese	2000	252	271	276	246	341	256	327	257	126	193	255	87.7	261	278	233	209	222	220	202
Mercury	0.81	0.0299 J	0.0151 J	0.0213 J	0.0146 J	0.0153 J	0.0711 J	0.0792 J	0.045 J	0.0313 J	0.0369 J	0.178 J	0.085 J	0.361 J	0.73 J 20.7	0.172 J	0.164 J	0.148 J	0.351	0.332
Nickel Potassium	140	16.3 801	15.1 863	14.1 739	17.8 999	21.1 1270	20.8 918	18.3 925	14.9 755	5.2 455	9.19 J 571 J	24.5 782	14.9 421	14.4 946	20.7	11.2 838	11.1 832	10.2 844	18.7 2050	16.2 1840
Selenium	36	5.07 U	5.21 U	4.93 U	5.14 U	5.12 U	5.13 U	925 4.98 U	755 1.12 J	455 5.16 U	5/1 J 5.21 U	782 1.2 J	421 5.29 U	946 1.32 J	2.72 J	838 5.17 U	5.26 U	844 5.26 U	2050	9,96
Silver	36	0.204 U	0.766 U	4.95 U 0.756 U	0.794 U	0.254 U	0.331 U	4.98 U 0.402 U	0.22 U	0.318 U	0.386 U	1.2 J	1.18	0.726 U	1.12	0.838 U	0.861 U	0.876 U	7.64	7.6
Sodium		589	493	303	302	1060	578	269	229	1710	656	152	196	141	1.12	66.5 J	67.8 J	86.1	1610	1550
Thallium		1.57 U	1.47 U	0.71 U	10.3 U	10.2 U	10.3 U	9.96 U	10.1 U	10.3 U	10.4 U	10.3 U	10.6 U	10 U	10.5 U	10.3 U	10.5 U	10.5 U	8.8 J	9.13 J
Vanadium		8.17	7.55	6.57	7.88	10	18.7	15.3	10.3	11.3	8.56	73.1	41.8	20.5	29.9	21.5	20.5	18.6	29.4	28.1
Zinc	2200	56.7	53	52.9	63.5	51.8	76	145	84.1	36.1	29.4 J	179	62	343	578	111	109	99	54.1	45.6
PCBs (mg/kg)																				
Aroclor-1016		0.0166 U	0.0172 U	0.0167 U	0.0167 U	0.0169 U	0.0171 U	0.0172 U	0.017 U	0.0167 U	0.0171 U	0.0168 U	0.0175 U	0.0168 U	0.0173 U	0.0173 U	0.0174 U	0.0172 U	0.0836	0.0941
Aroclor-1221		0.0166 U	0.0172 U	0.0167 U	0.0167 U	0.0169 U	0.0171 U	0.0172 U	0.017 U	0.0167 U	0.0171 U	0.0168 U	0.0175 U	0.0168 U	0.0173 U	0.0173 U	0.0174 U	0.0172 U		
Aroclor-1232		0.0166 U	0.0172 U	0.0167 U	0.0167 U	0.0169 U	0.0171 U	0.0172 U	0.017 U	0.0167 U	0.0171 U	0.0168 U	0.0175 U	0.0168 U	0.0173 U	0.0173 U	0.0174 U	0.0172 U		
Aroclor-1242		0.0166 U	0.0172 U	0.0167 U	0.0167 U	0.0169 U	0.0171 U	0.0172 U	0.017 U	0.0167 U	0.0171 U	0.0168 U	0.0175 U	0.0168 U	0.0173 U	0.0173 U	0.0174 U	0.0172 U		
Aroclor-1248		0.0166 U	0.0172 U	0.0167 U	0.0167 U	0.0169 U	0.0171 U	0.0172 U	0.017 U	0.0167 U	0.0171 U	0.0168 U	0.0175 U	0.0168 U	0.0173 U	0.0173 U	0.0174 U	0.0172 U		
Aroclor-1254 Aroclor-1260		0.049 0.0166 U	0.0602 0.0172 U	0.179 0.0167 U	0.0396 0.0167 U	0.0196 0.0169 U	0.507 0.0171 U	0.465 0.0172 U	0.157 0.017 U	0.0277 0.0167 U	0.187 0.0171 U	0.653 0.0168 U	0.237 0.0175 U	0.359 0.0168 U	0.314 0.0173 U	0.258 0.0173 U	0.252 0.0174 U	0.538 0.0172 U	0.16	0.197
Total PCBs		0.0100 0	0.0602	0.0107 0	0.0396	0.0199 0	0.507	0.465	0.017 0	0.0277	0.0171 0	0.653	0.237	0.359	0.314	0.0173 0	0.0174 0	0.538	0.10	0.2911
rom reps	-	0.015	0.0002	01175	010070	0.0170	0.007	0.100	01107	0.0277	01107	01000	0.207	0.007	0.011	0.250	01202	0.000	0.2100	0.2711
Volatile Organics (mg/kg)																				
1,1,1-Trichloroethane	100	0.00506 U	0.00475 U	0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.0145	0.0104
1,1,2,2-Tetrachloroethane		0.00506 U	0.00475 U	0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.0254	0.029
1,1,2-Trichloroethane		0.00506 U	0.00475 U	0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.0183	0.0182
1,1-Dichloroethane	19	0.00506 U	0.00475 U	0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.0146	0.0112
1,1-Dichloroethene	100	0.00506 U	0.00475 U	0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.0139	0.00936
1,2-Dichloroethane	2.3	0.00506 U	0.00475 U	0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.0167	0.0164
1,2-Dichloropropane		0.00506 U	0.00475 U	0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.0154	0.0133
2-Butanone	100	0.0101 U	0.00949 U 0.00475 U	0.0124 U 0.00622 U	0.0103 U 0.00515 U	0.0114 U 0.0057 U	0.0125 U 0.00627 U	0.0111 U 0.00554 U	0.0113 U 0.00563 U	0.011 U 0.00548 U	0.0116 R 0.0058 R	0.0113 U 0.00567 U	0.0147 U 0.00734 U	0.0131 U 0.00655 U	0.00979 U 0.00489 U	0.0121 U 0.00603 U	0.0127 U 0.00636 U	0.0121 U 0.00604 U	0.0163 0.0141	0.0188 0.0162
2-Hexanone 4-Methyl-2-Pentanoe		0.00506 U 0.00506 U	0.00475 U 0.00475 U	0.00622 U 0.00622 U	0.00515 U 0.00515 U	0.0057 U 0.0057 U	0.00627 U 0.00627 U	0.00554 U 0.00554 U	0.00563 U 0.00563 U	0.00548 U 0.00548 U	0.0058 R 0.0058 R	0.00567 U 0.00567 U	0.00734 U 0.00734 U	0.00655 U 0.00655 U	0.00489 U 0.00489 U	0.00603 U 0.00603 U	0.00636 U 0.00636 U	0.00604 U 0.00604 U	0.0141	0.0162
4-Metnyl-2-Pentanoe Acetone	100	0.00506 U 0.0101 U	0.00475 U 0.00949 U	0.00622 U 0.0124 U	0.00515 U 0.0103 U	0.0057 U 0.0114 U	0.00627 U 0.0125 U	0.00554 U 0.0111 U	0.00563 U 0.0113 U	0.00548 U 0.011 U	0.0058 R 0.0116 R	0.00567 U 0.0113 U	0.00734 U 0.0147 U	0.00655 U 0.0131 U	0.00489 U 0.00979 U	0.00603 U 0.0121 U	0.00636 U 0.0127 U	0.00604 U 0.0121 U	0.0162	0.0175
Acrylonitrile		0.0202 U	0.00949 U 0.019 U	0.0124 U 0.0249 U	0.0206 U	0.0228 U	0.0125 U 0.0251 U	0.0222 U	0.0225 U	0.0219 U	0.0110 R 0.0232 R	0.0227 U	0.0294 U	0.0131 U 0.0262 U	0.00979 U 0.0196 U	0.0121 U 0.0241 U	0.0127 U 0.0254 U	0.0121 U 0.0242 U	0.0179 0.0186 J	0.0202 J
Benzene	2.9	0.00506 U	0.00475 U	0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.014	0.0109
Bromodichloromethane		0.00506 U	0.00475 U	0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.0155	0.0137
Bromoform		0.00506 U	0.00475 U	0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.0128	0.0139
Bromomethane		0.00506 U	0.00475 U	0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.0181	0.0126
Carbon Disulfide		0.00506 U	0.00475 U	0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.0115	0.00694
Carbon tetrachloride	1.4	0.00506 U	0.00475 U	0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.015	0.00983
Chlorobenzene	100	0.00506 U	0.00475 U	0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.0121	0.0102
Chloroform		0.00506 U	0.00475 U	0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U 0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.0158	0.0108 0.013
Chloroform Chloromethane	10	0.00506 U 0.00506 U	0.00475 U 0.00475 U	0.00622 U 0.00622 U	0.00515 U 0.00515 U	0.0057 U 0.0057 U	0.00627 U 0.00627 U	0.00554 U 0.00554 U	0.00563 U 0.00563 U	0.00548 U 0.00548 U	0.0058 R 0.0058 R	0.00567 U 0.00567 U	0.00734 U 0.00734 U	0.00655 U 0.00655 U	0.00489 U 0.00489 U	0.00603 U 0.00603 U	0.00636 U 0.00636 U	0.00604 U 0.00604 U	0.0155 0.0167	0.013
cis-1,2-Dichloroethylene	59	0.00506 U 0.00506 U	0.00475 U 0.00475 U	0.00622 U 0.00622 U	0.00515 U 0.00515 U	0.0057 U 0.0057 U	0.00627 U 0.00627 U	0.00554 U 0.00554 U	0.00563 U 0.00563 U	0.00548 U 0.00548 U	0.0058 R 0.0058 R	0.00567 U 0.00567 U	0.00734 U 0.00734 U	0.00655 U 0.00655 U	0.00489 U 0.00489 U	0.00603 U 0.00603 U	0.00636 U 0.00636 U	0.00604 U 0.00604 U	0.0167	0.0115
cis-1,3-Dichloropropene		0.00506 U	0.00475 U	0.00622 U 0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U 0.00734 U	0.00655 U	0.00489 U 0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.0148	0.0110
Dibromochloromethane		0.00506 U	0.00475 U	0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.0158	0.0143
Ethylbenzene	30	0.00506 U	0.00475 U	0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.0126	0.00917
Methylene chloride	51	0.00506 U	0.00475 U	0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.0162	0.0139
Styrene		0.00506 U	0.00475 U	0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.0105	0.00823
Trichlorethene	10	0.00506 U	0.00475 U	0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.0129	0.00972
Tetrachloroethene	5.5	0.00506 U	0.00475 U	0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.0135	0.00955
Toluene	100	0.00506 U	0.00475 U	0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.000681 U	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.0144	0.0109
Trans-1,2-Dichloroethylene	100	0.00506 U	0.00475 U	0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.0134	0.0105
trans-1,3-Dichloropropene		0.00506 U	0.00475 U	0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.0108	0.0104
Vinyl chloride	0.21	0.00506 U	0.00475 U	0.00622 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.0167	0.0107
Xylenes, Total	100	0.00506 U 0 U	0.00475 U 0 U	0.00622 U 0 U	0.00515 U	0.0057 U	0.00627 U	0.00554 U	0.00563 U	0.00548 U	0.0058 R	0.00567 U	0.00734 U	0.00655 U	0.00489 U	0.00603 U	0.00636 U	0.00604 U	0.0389	0.0294
The field and a feasible during				1 11 11	0 U	0 U	0 U	0 U	0 U	0 U	0 R	0 U	0 U	0 U	0 U	0 U	0 U	0 U		
Epichlorohydrin		00	00	00	00															

Table 1 AOC C - Gorham Street Soil Sample Results Hampshire Chemical Corporation, Waterloo, New York

	NNODEC	00 444	66 4 4 B	00 45 4	00 45 0	00.464	66 46 B	00 474	00 470	00 40 4	CC 40 B	66 404	66 40 0	66.004	00 00 B	DUD CC	66.044	00 MB	00 40 0 1 40	CC 40D MCD
Field Sample ID	NYSDEC	SS-14A SS-14	SS-14B	SS-15A SS-15	SS-15B SS-15	SS-16A	SS-16B	SS-17A SS-17	SS-17B SS-17	SS-18A SS-18	SS-18B	SS-19A SS-19	SS-19B SS-19	SS-20A SS-20	SS-20B	DUP-SS	SS-21A SS-21	SS-21B	SS-18B-MS	SS-18B-MSD
Location ID	Residential Bastalated		SS-14	0-2 IN		SS-16	SS-16				SS-18				SS-20	SS-21		SS-21	SS-18	SS-18
Depth Interval	Restricted	0-2 IN	2 - 7 IN		2 - 7 IN	0-2 IN	2 - 7 IN	0-2 IN	2 - 12 IN	0-2 IN	2 - 7 IN	0-2 IN	2 - 12 IN	0-2 IN	2 - 8 IN	0-2 IN	0-2 IN	2 - 11 IN	2 - 7 IN	2 - 7 IN
Sample Date	Use	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007	8/14/2007
Sample Type		Normal	Normal	Normal	Normal	Normal	Normal	Normal	Duplicate	Normal	Normal	MS	SD							
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil							
Semi-Volatile Organics (mg/kg)																				
1,2,4-Trichlorobenzene		1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	1.17 J	1.15 J
1,2-Dichlorobenzene	100	1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	1.16 J	1.15 J
1,3-Dichlorobenzene	17	1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	1.1 J	1.07 J
1,4-Dichlorobenzene	9.8	1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	1.1 J	1.08 J
2,4,5-Trichlorophenol		1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	1.59 J	1.37 J
2,4,6-Trichlorophenol 2,4-Dichlorophenol		1.69 U 1.69 U	1.68 U 1.68 U	1.66 U 1.66 U	1.69 U 1.69 U	1.69 U 1.69 U	1.68 U 1.68 U	3.43 U 3.43 U	3.41 U 3.41 U	1.7 U 1.7 U	1.71 U 1.71 U	3.34 U 3.34 U	1.75 U 1.75 U	3.38 U 3.38 U	3.43 U 3.43 U	1.73 U 1.73 U	3.43 U 3.43 U	1.73 U 1.73 U	1.24 J 1.35 J	1.05 J 1.23 J
2,4-Dichiorophenol 2,4-Dimethylphenol		1.69 U 1.69 U	1.68 U	1.66 U	1.69 U 1.69 U	1.69 U 1.69 U	1.68 U	3.43 U 3.43 U	3.41 U 3.41 U	1.7 U 1.7 U	1.71 U	3.34 U 3.34 U	1.75 U	3.38 U	3.43 U 3.43 U	1.73 U	3.43 U 3.43 U	1.73 U 1.73 U	1.35 J	1.25 J
2,4-Dinitrophenol		8.44 U	8.4 U	8.28 U	8.44 U	8.45 U	8.42 U	17.2 U	17 U	8.48 U	8.54 U	16.7 U	8.77 U	16.9 U	17.2 U	8.64 U	17.2 U	8.65 U	8.54 U	8.54 U
2,4-Dinitrotoluene		1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	1.46 J	1.32 J
2,6-Dinitrotoluene		1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	1.34 J	1.23 J
2-Chloronaphthalene		1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	1.15 J	1.07 J
2-Methylnaphthalene		1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U 3.38 U	3.43 U	1.73 U	3.43 U 3.43 U	1.73 U	1.32 J	1.24 J
2-Methylphenol 2-Nitroaniline	100	1.69 U 8.44 U	1.68 U 8.4 U	1.66 U 8.28 U	1.69 U 8.44 U	1.69 U 8.45 U	1.68 U 8.42 U	3.43 U 17.2 U	3.41 U 17 U	1.7 U 8.48 U	1.71 U 8.54 U	3.34 U 16.7 U	1.75 U 8.77 U	3.38 U 16.9 U	3.43 U 17.2 U	1.73 U 8.64 U	3.43 U 17.2 U	1.73 U 8.65 U	1.24 J 8.54 U	1.19 J 8.54 U
2-Nitrophenol		1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	1.71 U	1.71 U
3,3'-Dichlorobenzidine		3.38 U	3.36 U	3.31 U	3.38 U	3.38 U	3.37 U	6.87 U	6.82 U	3.39 U	3.42 U	6.68 U	3.51 U	6.76 U	6.86 U	3.45 U	6.86 U	3.46 U	1.87 J	1.75 J
3-,4-Methylphenol		1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	1.37 J	1.28 J
3-Nitroaniline		8.44 U	8.4 U	8.28 U	8.44 U	8.45 U	8.42 U	17.2 U	17 U	8.48 U	8.54 U	16.7 U	8.77 U	16.9 U	17.2 U	8.64 U	17.2 U	8.65 U	8.54 U	8.54 U
4,6-Dinitro-2-methylphenol 4-Bromophenyl phenyl ether		8.44 U 1.69 U	8.4 U 1.68 U	8.28 U 1.66 U	8.44 U 1.69 U	8.45 U 1.69 U	8.42 U 1.68 U	17.2 U 3.43 U	17 U 3.41 U	8.48 U 1.7 U	8.54 U 1.71 U	16.7 U 3.34 U	8.77 U 1.75 U	16.9 U 3.38 U	17.2 U 3.43 U	8.64 U 1.73 U	17.2 U 3.43 U	8.65 U 1.73 U	4.1 J 1.69 J	4.02 J 1.38 J
4-Chloro-3-methylphenol		1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U 3.43 U	1.73 U	3.43 U 3.43 U	1.73 U	1.69 J	1.38 J
4-Chloroaniline		1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	0.998 J	0.957 J
4-Chlorophenyl phenyl ether		1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	1.61 J	1.38 J
4-Nitroaniline		8.44 U	8.4 U	8.28 U	8.44 U	8.45 U	8.42 U	17.2 U	17 U	8.48 U	8.54 U	16.7 U	8.77 U	16.9 U	17.2 U	8.64 U	17.2 U	8.65 U	8.54 U	8.54 U
4-Nitrophenol	100	8.44 U	8.4 U	8.28 U	8.44 U	8.45 U 1.69 U	8.42 U	17.2 U 3.43 U	17 U	8.48 U 1.7 U	8.54 U	16.7 U 3.34 U	8.77 U	16.9 U 3.38 U	17.2 U	8.64 U 1.73 U	17.2 U	8.65 U	8.54 U	8.54 U 1.33 J
Acenaphthene Acenaphthylene	100	1.69 U 1.69 U	1.68 U 1.68 U	1.66 U 1.66 U	1.69 U 1.69 U	1.69 U 1.69 U	1.68 U 1.68 U	3.43 U 3.43 U	3.41 U 3.41 U	1.7 U 1.7 U	1.71 U 1.71 U	3.34 U 3.34 U	1.75 U 1.75 U	3.38 U	3.43 U 3.43 U	1.73 U	3.43 U 3.43 U	1.73 U 1.73 U	1.48 J 1.45 J	1.35 J
Anthracene	100	1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	2.18	1.92
Benzo (a) anthracene	1	1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	2.34	2.08
Benzo (a) pyrene	1	1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	2.23	1.97
Benzo (b) fluoranthene	1	1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	2.21	1.8
Benzo (g,h,i) perylene Benzo(k)fluoranthene	100	1.69 U 1.69 U	1.68 U 1.68 U	1.66 U 1.66 U	1.69 U 1.69 U	1.69 U 1.69 U	1.68 U 1.68 U	3.43 U 3.43 U	3.41 U 3.41 U	1.7 U 1.7 U	1.71 U 1.71 U	3.34 U 3.34 U	1.75 U 1.75 U	3.38 U 3.38 U	3.43 U 3.43 U	1.73 U 1.73 U	3.43 U 3.43 U	1.73 U 1.73 U	1.78 2.3	1.54 J 1.97
Bis (2-chloroethoxy) methane		1.69 UJ	1.68 UJ	1.66 UJ	1.69 UJ	1.69 UJ	1.68 UJ	3.43 UJ	3.41 UJ	1.7 UJ	1.71 UJ	3.34 UJ	1.75 UJ	3.38 UJ	3.43 UI	1.73 UJ	3.43 UI	1.73 UJ	0.959 [0.966 J
Bis (2-chloroethyl) ether		1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	1.09 J	1.12 J
Bis (2-chloroisopropyl) ether		1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	1.13 J	1.23 J
Bis (2-ethylhexyl) phthalate		1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	2.35	4.74
Butyl benzylphthalate Carbazole		1.69 U 1.69 U	1.68 U 1.68 U	1.66 U 1.66 U	1.69 U 1.69 U	1.69 U 1.69 U	1.68 U 1.68 U	3.43 U 3.43 U	3.41 U 3.41 U	1.7 U 1.7 U	1.71 U 1.71 U	3.34 U 3.34 U	1.75 U 1.75 U	3.38 U 3.38 U	3.43 U 3.43 U	1.73 U 1.73 U	3.43 U 3.43 U	1.73 U 1.73 U	2.38 2.29	2.24 2.1
Chrysene		1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U 3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U 3.43 U	1.73 U	2.38	2.1
Dibenzo (a,h) anthracene	0.33	1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	1.92	1.64 J
Dibenzofuran	14	1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	1.64 J	1.43 J
Diethyl phthalate		1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	1.85	1.64 J
Dimethyl phthalate Di-n-butylphthalate		1.69 U 1.69 U	1.68 U 1.68 U	1.66 U 1.66 U	1.69 U 1.69 U	1.69 U 1.69 U	1.68 U 1.68 U	3.43 U 3.43 U	3.41 U 3.41 U	1.7 U 1.7 U	1.71 U 1.71 U	3.34 U 3.34 U	1.75 U 1.75 U	3.38 U 3.38 U	3.43 U 3.43 U	1.73 U 1.73 U	3.43 U 3.43 U	1.73 U 1.73 U	1.62 J 2.18	1.45 J 1.94
Di-n-butyIphthalate Di-n-octylphthalate		1.69 U 1.69 U	1.68 U 1.68 U	1.66 U	1.69 U 1.69 U	1.69 U 1.69 U	1.68 U 1.68 U	3.43 U 3.43 U	3.41 U 3.41 U	1.7 U 1.7 U	1.71 U 1.71 U	3.34 U 3.34 U	1.75 U 1.75 U	3.38 U 3.38 U	3.43 U 3.43 U	1.73 U 1.73 U	3.43 U 3.43 U	1.73 U 1.73 U	2.18	1.94
Fluoranthene	100	1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	1.96 J	1.75 U	2.47 J	3.07 J	1.33 J	3.43 U	1.13 J	2.55	2.21
Fluorene	100	1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	1.7 J	1.5 J
Hexachlorobenzene	0.33	1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	2.08	1.77
Hexachlorobutadiene		1.69 U 1.69 U	1.68 U 1.68 U	1.66 U 1.66 U	1.69 U 1.69 U	1.69 U 1.69 U	1.68 U 1.68 U	3.43 U 3.43 U	3.41 U 3.41 U	1.7 U 1.7 U	1.71 U 1.71 U	3.34 U 3.34 U	1.75 U 1.75 U	3.38 U 3.38 U	3.43 U 3.43 U	1.73 U 1.73 U	3.43 U 3.43 U	1.73 U 1.73 U	1.27 J 1.71 U	1.17 J 1.71 U
Hexachlorocyclopentadiene Hexachloroethane		1.69 U 1.69 U	1.68 U 1.68 U	1.66 U	1.69 U 1.69 U	1.69 U 1.69 U	1.68 U 1.68 U	3.43 U 3.43 U	3.41 U 3.41 U	1.7 U 1.7 U	1.71 U 1.71 U	3.34 U 3.34 U	1.75 U 1.75 U	3.38 U 3.38 U	3.43 U 3.43 U	1.73 U 1.73 U	3.43 U 3.43 U	1.73 U 1.73 U	1.71 U 1 J	0.98 J
Indeno (1,2,3-c,d) pyrene	0.5	1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	1.91	1.62 J
Isophorone		1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	1.4 J	1.4 J
Naphthalene	100	1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	1.24 J	1.21 J
Nitrobenzene		1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	0.975 J	1.08 J
n-Nitrosodi-n-propylamine n-Nitrosodiphenylamine		1.69 U 1.69 U	1.68 U 1.68 U	1.66 U 1.66 U	1.69 U 1.69 U	1.69 U 1.69 U	1.68 U 1.68 U	3.43 U 3.43 U	3.41 U 3.41 U	1.7 U 1.7 U	1.71 U 1.71 U	3.34 U 3.34 U	1.75 U 1.75 U	3.38 U 3.38 U	3.43 U 3.43 U	1.73 U 1.73 U	3.43 U 3.43 U	1.73 U 1.73 U	1.19 J 1.66 J	1.25 J 1.5 J
Pentachlorophenol	2.4	8.44 U	8.4 U	8.28 U	8.44 U	8.45 U	8.42 U	3.45 U 17.2 U	3.41 U 17 U	1.7 U 8.48 U	8.54 U	16.7 U	8.77 U	3.38 U 16.9 U	17.2 U	8.64 U	3.43 U 17.2 U	8.65 U	4.32 J	4.24 J
Phenanthrene	100	1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	1.76 J	1.73 U	3.43 U	1.73 U	2.23	1.97
Phenol	100	1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	3.38 U	3.43 U	1.73 U	3.43 U	1.73 U	1.26 J	1.21 J
Pyrene	100	1.69 U	1.68 U	1.66 U	1.69 U	1.69 U	1.68 U	3.43 U	3.41 U	1.7 U	1.71 U	3.34 U	1.75 U	2.12 J	2.55 J	1.25 J	3.43 U	0.994 J	2.51	2.25

U = The constituent was not detected above the associated reporting limit J - The constituent concentration was estimated Gray shading indicates that the constituent was detected above a criteria -- indicates no criteria established

mg/kg = milligram per kilogram IN = inches



MKE \LSG31019756\GISIDOW\WATERLOO\MAPDOCS\AOC C\FIGURE1_AOCC_SURFACE_SOIL.MXD FIGURE1_AOCC_SURFACE_SOIL.MXD 1/21/2008 08:44:47

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and the second second	the state of the s	the second s	11 11 11 11 11 11 11 11 11 11 11 11 11	SS-01	These and the second second	Carra Carlos	C. Alternation	And the second second	and a second	and the second
Location ID	SS-07	Location ID	SB-18		Location ID	SB-01B		Location ID	Contraction of the local division of the loc	SS-12
Field Sample ID	SS-07	Field Sample ID	SB-18A		Field Sample ID	SB-1B-0-2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Field Sample	п	SS-12
Depth Interval	0 - 1.92 IN	Depth Interval	1.92 - 12 IN	GW-10B G	Depth Interval	0 - 24 IN		Depth Interva		0 - 1.92 IN
Sample Date	12/9/2005	Sample Date	12/8/2005		Sample Date	12/18/2001	The season of th	Sample Date		12/7/2005
PCBs (mg/kg)		PCBs (mg/kg)		GW-10B SS-02	PCBs (mg/kg)	12/10/2001	10. W 2. 2	PCBs (mg/kg	1)	12/1/2000
Total PCBs	NE	Total PCBs	3.59		Total PCBs	1.07		Total PCBs	<i>3/</i>	2.12
SVOCs (mg/kg)		SVOCs (mg/kg)		SS-03 ham	AND A STORE OF A STORE	and the second se		SVOCs (mg/	ka)	2.12
Benzo (a) anthracene	2.25	Benzo (b) fluoranthen	ie 1		Location ID	AOCC-EX2	1.1	Benzo (a) ant		5.42
Benzo (a) pyrene	1.98	South States and States and		346	Field Sample ID	AOCC-EX2-WALL	A	Benzo (a) pyr		5.87
Benzo (b) fluoranthene	2.7	Location ID	SS-06		Depth Interval	18 - 30 IN		Benzo (b) fluo		8.8 J
Chrysene	2.13	Field Sample ID	SS-06	SS-04 9	Sample Date	10/11/1999	Sand and the	Benzo(k)fluor		2.59
Dibenzo (a,h) anthracene	0.34	Depth Interval	0 - 1.92 IN		SS-14 PCBs (mg/kg)	1789		Chrysene		5.37
Indeno (1,2,3-c,d) pyrene	1.02	Sample Date	12/8/2005	SB-18	Total TOES	3.3	8. C . 4	Dibenzo (a,h)	anthracene	0.645
		PCBs (mg/kg)			SVOCs (mg/kg)			Indeno (1,2,3		1.91
Location ID	SS-08	Total PCBs	1.37		Benzo (a) anthracene	5.45	FILE LA	······································		willing to
Field Sample ID	SS-08			SS-05	Benzo (a) pyrene	1.7	States of the second	Location ID		SB-01
Depth Interval	0 - 1.92 IN	A CONTRACTOR	No. 100	55-05	Benzo (b) fluoranthene	9.5	10 10 1	Field Sample	ID	SB-01
Sample Date	12/7/2005	Location ID	SB-19		Benzo(k)fluoranthene	8.38	The second	Depth Interva	l .	24 - 48 IN
PCBs (mg/kg)		Field Sample ID	SB-19A		Chrysene	5.18	all the	Sample Date		12/18/2001
Total PCBs	NE	Depth Interval	1.92 - 12 IN		Hexachlorobenzene	1.61		PCBs (mg/kg	a)	E.C.
SVOCs (mg/kg)		Sample Date	12/8/2005	SS-06	SS-15	AOCC-EX2	and and the	Total PCBs		NE
Benzo (a) anthracene	1.71	PCBs (mg/kg)			Location ID Field Sample ID	AOCC-EX2 AOCC-EX2-BOTTOM	Contra i	SVOCs (mg/	kg)	
Benzo (a) pyrene	1.57	Total PCBs	NE		Depth Interval	48 - 54 IN	and they want	Benzo (a) ant	hracene	6.2
Benzo (b) fluoranthene	2.24	SVOCs (mg/kg)		70.22	Sample Date	48 - 54 IN 10/11/1999		Benzo (a) pyr	ene	5.3
Chrysene	1.67	Benzo (a) anthracene	5.28	33-01	PCBs (mg/kg)	10/11/1999		Benzo (b) fluo	oranthene	6.7
Indeno (1,2,3-c,d) pyrene	0.7	Benzo (a) pyrene	4.78		Total PCBs	NE	Contraction of the	Benzo(k)fluor	anthene	1.8
the second s		Benzo (b) fluoranthen			SVOCs (mg/kg)		The second second	Chrysene		5.5
Location ID	SS-09	Benzo(k)fluoranthene			SS-16 Benzo (a) anthracene	4.48	a dela se dela se	Dibenzo (a,h)		0.62 J
Field Sample ID	SS-09	Chrysene	4.77	SS-08	Benzo (a) pyrene	4.75	a brack of the	Indeno (1,2,3	-c,d) pyrene	3
Depth Interval	0 - 1.92 IN	Dibenzo (a,h) anthrac	ene 0.959		Benzo (b) fluoranthene	5.81	March and Party	Lessting ID		00
Sample Date	12/9/2005	Indeno (1,2,3-c,d) pyr	rene 2.63		Benzo(k)fluoranthene	2.24		Location ID Field Sample ID	SB-20A	SB-20
PCBs (mg/kg)				SB-19	Chrysene	4.82		Depth Interval	2 - 12 IN	36 - 60 IN
Total PCBs	2.88	A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O	10 T		Dibenzo (a,h) anthracen		AN IS	Sample Date	12/8/2005	12/8/2005
SVOCs (mg/kg)		Location ID	SS-10		SS-17 Indeno (1,2,3-c,d) pyren		Carling and a lot	PCBs (mg/kg)	12/0/2003	12/0/2003
Benzo (a) anthracene	23	Field Sample ID	SS-10				- and a second	Total PCBs	3.04	NE
Benzo (a) pyrene	16.9	Depth Interval	0 - 1.92 IN	SS	09 Location ID Field Sample ID	SB-01A SB-1A-0-2 SB	-1A-4-6	SVOCs (mg/kg)	0.04	
Benzo (b) fluoranthene	23.8	Sample Date	12/9/2005		SB-02B Depth Interval		- 72 IN	Benzo (a) anthracene	10.7	1.69
Benzo(k)fluoranthene	5.38	PCBs (mg/kg)	12/0/2000		Sample Date		9/2004	Benzo (a) pyrene	5.81	1.54
Chrysene	20.7	Total PCBs	11.8		B-02A PCBs (mg/kg)	4/19/2004 4/	5/2004	Benzo (b) fluoranthene	7.39	2.3
Dibenzo (a,h) anthracene	2.56	SVOCs (mg/kg)	11.0	SS-10	Total PCBs	3.04	NE	Benzo(k)fluoranthene	6.7	NE
Indeno (1,2,3-c,d) pyrene	8.23	Benzo (a) anthracene	14.8		SVOCs (mg/kg)	0.04		Chrysene	9.97	1.51
		Benzo (a) pyrene	12.4	SB-01B	Bonzo (a) anthracono	NE	15.5	Dibenzo (a,h) anthracene	2.25	NE
Location ID	SB-02	Benzo (b) fluoranthen		SB-02	SS-18 Benzo (a) pyrene		11.4	Indeno (1,2,3-c,d) pyrene	6.98	0.697
Field Sample ID	SB-02	Benzo(k)fluoranthene		<u>SS-11</u>	Benzo (b) fluoranthene		14.1	and the second sec	PERSON BY	A TESTINE P
Depth Interval	72 - 96 IN	Chrysene	14.3		Benzo(k)fluoranthene	NE	5.4	NYC	DEC DUSCO Desider	ntial (maylea)
Sample Date	12/18/2001	Dibenzo (a,h) anthrac	cene 2.14	AOCC-EX			13.3	Total PCBs	DEC RUSCO Resider	
PCBs (mg/kg)	7	Indeno (1,2,3-c,d) pyr	rene 6.01		SS-12 Indeno (1,2,3-c,d) pyren	e NE	5.14	Benzo (a) ar	othracono	1
Total PCBs	7		Friday The State of the State					Benzo (a) a		1
		The second second second	and the second se				the second se	Don20 (d) p)		· · · · · · · · · · · · · · · · · · ·
SVOCs (mg/kg)	16	the second second second	Carlos and the second	SR-01		E State	The second second	Benzo (b) flu	oranthene	1
Benzo (a) anthracene	16	Location ID	SS-11	SB-01	E (1) 20			Benzo (b) flu Benzo(k)fluo		1
Benzo (a) anthracene Benzo (a) pyrene	14	Location ID Field Sample ID		SB-01		6	20.23			1 1 1
Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene	14 19		SS-11 SS-11 0 - 1.92 IN	SB-01	SS-19		140	Benzo(k)fluo Chrysene		1 0.33
Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo(k)fluoranthene	14 19 5.5	Field Sample ID	SS-11	SB-01	SB-20 SS-19			Benzo(k)fluo Chrysene	anthracene	1
Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo(k)fluoranthene Chrysene	14 19	Field Sample ID Depth Interval Sample Date PCBs (mg/kg)	SS-11 0 - 1.92 IN 12/8/2005	SB-01	SB-20 SS-19 SS-13 Location Field Sar	nple ID SS-1	3	Benzo(k)fluc Chrysene Dibenzo (a,h Fluoranthen Hexachlorot	oranthene	1 0.33 100 0.33
Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo (a,h) anthracene	14 19 5.5 15 1.7 J	Field Sample ID Depth Interval Sample Date PCBs (mg/kg) Total PCBs	SS-11 0 - 1.92 IN	SB-01	SB-20 SS-19 SS-13 Field Sar Depth Im	nple ID SS-1 erval 0 - 1.92	3 2 IN	Benzo(k)fluc Chrysene Dibenzo (a,h Fluoranthen Hexachlorot Indeno (1,2,	n) anthracene	1 0.33 100 0.33 0.5
Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo(k)fluoranthene Chrysene	14 19 5.5 15	Field Sample ID Depth Interval Sample Date PCBs (mg/kg) Total PCBs SVOCs (mg/kg)	SS-11 0 - 1.92 IN 12/8/2005 4.36	SB-01	SB-20 SS-19 SS-13 Location Field Sar Depth In Sample	nple ID SS-1 erval 0 - 1.92 Date 12/8/20	3 2 IN	Benzo(k)fluc Chrysene Dibenzo (a,h Fluoranthen Hexachlorot	oranthene	1 0.33 100 0.33
Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo (a,h) anthracene	14 19 5.5 15 1.7 J	Field Sample ID Depth Interval Sample Date PCBs (mg/kg) Total PCBs SVOCs (mg/kg) Benzo (a) anthracene	SS-11 0 - 1.92 IN 12/8/2005 4.36 e 5.2	SB-01	SS-13 SS-20 SS-20 SS-20 SS-20 SS-20 SS-20	nple ID SS-1 erval 0 - 1.92 Date 12/8/20 g/kg)	3 2 IN 005	Benzo(k)fluc Chrysene Dibenzo (a,h Fluoranthen Hexachlorot Indeno (1,2,	oranthene	1 0.33 100 0.33 0.5
Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo (a,h) anthracene	14 19 5.5 15 1.7 J	Field Sample ID Depth Interval Sample Date PCBs (mg/kg) Total PCBs SVOCs (mg/kg) Benzo (a) anthracene Benzo (a) pyrene	SS-11 0 - 1.92 IN 12/8/2005 4.36 5.2 5.41	SB-01	SB-20 SS-19 SS-13 Location Field Sar Depth In Sample I PCBs (n Total PC	nple ID SS-1 erval 0 - 1.92 Date 12/8/20 g/kg) 3s	3 2 IN 005	Benzo(k)fluc Chrysene Dibenzo (a,h Fluoranthen Hexachlorot Indeno (1,2,	oranthene	1 0.33 100 0.33 0.5
Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo (a,h) anthracene Indeno (1,2,3-c,d) pyrene	14 19 5.5 15 1.7 J 7.5	Field Sample ID Depth Interval Sample Date PCBs (mg/kg) Total PCBs SVOCs (mg/kg) Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthen	SS-11 0 - 1.92 IN 12/8/2005 4.36 5.2 5.41 ne 8.75 J	SB-01	SB-20 SS-19 SS-13 Location Field Sa Depth In SS-20 PCBs (n Total PC SVOCs	nple ID SS-1 erval 0 - 1.92 Date 12/8/20 g/kg) Bs 9.75 mg/kg)	3 2 IN 005	Benzo(k)fluc Chrysene Dibenzo (a,h Fluoranthen Hexachlorot Indeno (1,2,	oranthene	1 0.33 100 0.33 0.5
Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo (a,h) anthracene Indeno (1,2,3-c,d) pyrene	14 19 5.5 15 1.7 J 7.5	Field Sample ID Depth Interval Sample Date PCBs (mg/kg) Total PCBs SVOCs (mg/kg) Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo(k) fluoranthene	SS-11 0 - 1.92 IN 12/8/2005 4.36 5.2 5.41 ae 8.75 J 2.62	SB-01	SB-20 SS-19 SS-13 Location Field Sa Depth In Sample SS-20 PCBs (n Total PC SVOCs Benzo (a	nple ID SS-1 erval 0 - 1.92 Date 12/8/24 g/kg)	3 2 IN 005	Benzo(k)fluc Chrysene Dibenzo (a,h Fluoranthen Hexachlorot Indeno (1,2,	oranthene	1 0.33 100 0.33 0.5
Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo (a,h) anthracene Indeno (1,2,3-c,d) pyrene Legend Surface Soil S	14 19 5.5 15 1.7 J 7.5	Field Sample ID Depth Interval Sample Date PCBs (mg/kg) Total PCBs SVOCs (mg/kg) Benzo (a) anthracene Benzo (b) fluoranthen Benzo (b) fluoranthene Benzo (k) fluoranthene Chrysene	SS-11 0 - 1.92 IN 12/8/2005 4.36 5.2 5.41 1e 8.75 J 2 2.62 5.06	SB-01	SB-20 SS-19 SS-13 Location Field Sar Depth Im Sample SS-20 PCBs (m Total PC SVOCs Benzo (a Benzo (a Benzo (a Benzo (a	nple ID SS-1 erval 0 - 1.92 Date 12/8/20 g/kg)	3 2 IN 005	Benzo(k)fluc Chrysene Dibenzo (a,h Fluoranthen Hexachlorot Indeno (1,2,	oranthene	1 0.33 100 0.33 0.5
Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo (a,h) anthracene Indeno (1,2,3-c,d) pyrene Legend Surface Soil S	14 19 5.5 15 1.7 J 7.5	Field Sample ID Depth Interval Sample Date PCBs (mg/kg) Total PCBs SVOCs (mg/kg) Benzo (a) anthracene Benzo (b) fluoranthen Benzo (b) fluoranthene Benzo (b) fluoranthene Chrysene Dibenzo (a,h) anthrac	SS-11 0 - 1.92 IN 12/8/2005 4.36 4.36 5.2 5.41 ae 8.75 J a 2.62 5.06 cene 1.08	SB-01	SB-20 SS-19 SS-13 Location Field Sar Depth Im Sample SS-20 PCBs (m Total PC SVOCs (Benzo (a Benzo (a Benzo (b)	nple ID SS-1 erval 0 - 1.92 Jate 12/8/20 g/kg) 38 mg/kg) 9.75 mg/kg) 0 anthracene 0 pyrene 66.1 0 fluoranthene 99.3	3 2 IN 105 	Benzo(k)fluc Chrysene Dibenzo (a,h Fluoranthen Hexachlorot Indeno (1,2,	oranthene	1 0.33 100 0.33 0.5 100
Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo (a,h) anthracene Indeno (1,2,3-c,d) pyrene Legend Surface Soil S Post Excavatio	14 19 5.5 15 1.7 J 7.5	Field Sample ID Depth Interval Sample Date PCBs (mg/kg) Total PCBs SVOCs (mg/kg) Benzo (a) anthracene Benzo (b) fluoranthen Benzo (b) fluoranthene Benzo (k) fluoranthene Chrysene	SS-11 0 - 1.92 IN 12/8/2005 4.36 5.2 5.41 ae 8.75 J 2 2.62 5.06 cene 1.08	SB-01	SB-20 SS-19 SS-13 Location Field Sar Depth Im Sample SS-20 PCBs (m Total PC SVOCs Benzo (a Benzo (a Benzo (b Benzo (k)	nple ID SS-1 erval 0 - 1.92 Date 12/8/20 g/kg) 33 Bas 9.75 mg/kg) 0 anthracene 0 pyrene 66.1 fluoranthene 99.3 fluoranthene 11.4	3 2 IN 005 	Benzo(k)fluc Chrysene Dibenzo (a,h Fluoranthen Hexachlorot Indeno (1,2,	Nanthracene e benzene 3-c,d) pyrene NE = No Exceeda	1 0.33 100 0.33 0.5 100
Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo (a,h) anthracene Indeno (1,2,3-c,d) pyrene Legend Surface Soil S	14 19 5.5 15 1.7 J 7.5	Field Sample ID Depth Interval Sample Date PCBs (mg/kg) Total PCBs SVOCs (mg/kg) Benzo (a) anthracene Benzo (b) fluoranthen Benzo (b) fluoranthene Benzo (b) fluoranthene Chrysene Dibenzo (a,h) anthrac	SS-11 0 - 1.92 IN 12/8/2005 4.36 4.36 5.2 5.41 ae 8.75 J a 2.62 5.06 cene 1.08	SB-01	SB-20 SS-19 SS-13 Location Field Sar Depth Im Sample SS-20 PCBs (m Total PC SVOCs Benzo (a Benzo (a Benzo (b Benzo (b Benzo (c) Benzo (c) Be	nple ID SS-1 erval 0 - 1.92 Date 12/8/20 g/kg) 3s Bas 9.75 mg/kg) 0) anthracene 0) pyrene 66.1 0 fluoranthene 99.3 fluoranthene 11.4 e 67.4	3 2 IN 005 	Benzo(k)fluc Chrysene Dibenzo (a,h Fluoranthen Hexachlorot Indeno (1,2,	NE = No Exceeda	1 0.33 100 0.33 0.5 100
Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo (a,h) anthracene Indeno (1,2,3-c,d) pyrene Legend Surface Soil S Post Excavatio Soil Boring	14 19 5.5 15 1.7 J 7.5 Sample on Soil Sample	Field Sample ID Depth Interval Sample Date PCBs (mg/kg) Total PCBs SVOCs (mg/kg) Benzo (a) anthracene Benzo (b) fluoranthen Benzo (b) fluoranthene Benzo (b) fluoranthene Chrysene Dibenzo (a,h) anthrac	SS-11 0 - 1.92 IN 12/8/2005 4.36 4.36 5.2 5.41 ae 8.75 J a 2.62 5.06 cene 1.08	SB-01	SB-20 SS-19 SS-13 Location Field Sar Depth Im Sample SS-20 PCBs (m Total PC SVOCs Benzo (a Benzo (a Benzo (b Benzo (b Benzo (c) Benzo (c) Be	nple ID SS-1 erval 0 - 1.92 Date 12/8/20 gg/kg) 3s 3s 9.75 mg/kg) 0) anthracene 0) pyrene 66.1 0 fluoranthene 99.3 fluoranthene 11.4 0) 67.4 (a,h) anthracene 9.51	3 2 IN 005 J J J J J J J J	Benzo(k)fluc Chrysene Dibenzo (a,h Fluoranthen Hexachlorot Indeno (1,2,	Nanthracene e benzene 3-c,d) pyrene NE = No Exceeda	1 0.33 100 0.33 0.5 100
Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo (a,h) anthracene Indeno (1,2,3-c,d) pyrene Legend Surface Soil S Post Excavatio Soil Boring HCC Property	14 19 5.5 15 1.7 J 7.5 Sample on Soil Sample	Field Sample ID Depth Interval Sample Date PCBs (mg/kg) Total PCBs SVOCs (mg/kg) Benzo (a) anthracene Benzo (b) fluoranthen Benzo (b) fluoranthene Benzo (b) fluoranthene Chrysene Dibenzo (a,h) anthrac	SS-11 0 - 1.92 IN 12/8/2005 4.36 4.36 5.2 5.41 ae 8.75 J a 2.62 5.06 cene 1.08	SB-01	SB-20 SS-19 SS-13 Location Field Sar Depth In SS-20 PCBs (n Total PC SVOCs (Benzo (a Benzo (a Benzo (b Benzo (k) Chrysene Dibenzo Fluoranti	nple ID SS-1 erval 0 - 1.92 Date 12/8/20 g/kg) 3s Bas 9.75 mg/kg) 0) anthracene 0) pyrene 66.1 0 fluoranthene 99.3 fluoranthene 11.4 a 67.4 (a,h) anthracene 9.51	3 2 IN 005 J J J J J J J J J J J J J	Benzo(k)fluc Chrysene Dibenzo (a,h Fluoranthen Hexachlorot Indeno (1,2,	NE = No Exceeda	1 0.33 100 0.33 0.5 100
Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo (a,h) anthracene Indeno (1,2,3-c,d) pyrene Legend Surface Soil S Post Excavatio Soil Boring	14 19 5.5 15 1.7 J 7.5 Sample on Soil Sample	Field Sample ID Depth Interval Sample Date PCBs (mg/kg) Total PCBs SVOCs (mg/kg) Benzo (a) anthracene Benzo (b) fluoranthen Benzo (b) fluoranthene Benzo (b) fluoranthene Chrysene Dibenzo (a,h) anthrac	SS-11 0 - 1.92 IN 12/8/2005 4.36 4.36 5.2 5.41 ae 8.75 J a 2.62 5.06 cene 1.08	SB-01	SB-20 SS-19 SS-13 Location Field Sar Depth In SS-20 PCBs (n Total PC SVOCs (Benzo (a Benzo (a Benzo (b Benzo (k) Chrysene Dibenzo Fluoranti	nple ID SS-1 erval 0 - 1.92 Date 12/8/20 g/kg) 3s Bas 9.75 mg/kg) 0 0) anthracene 80 0) pyrene 66.1 0 fluoranthene 99.3 fluoranthene 11.4 0 67.4 (a,h) anthracene 9.51	3 2 IN 005 J J J J J J J J J J J J J J J J J	Benzo(k)fluc Chrysene Dibenzo (a,h Fluoranthen Hexachlorot Indeno (1,2,	oranthene	1 0.33 100 0.33 0.5 100
Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo (a,h) anthracene Indeno (1,2,3-c,d) pyrene Legend Surface Soil S Post Excavatio Soil Boring HCC Property	14 19 5.5 15 1.7 J 7.5 Sample on Soil Sample	Field Sample ID Depth Interval Sample Date PCBs (mg/kg) Total PCBs SVOCs (mg/kg) Benzo (a) anthracene Benzo (b) fluoranthen Benzo (b) fluoranthene Benzo (b) fluoranthene Chrysene Dibenzo (a,h) anthrac	SS-11 0 - 1.92 IN 12/8/2005 4.36 4.36 5.2 5.41 ae 8.75 J a 2.62 5.06 cene 1.08	SB-01	SB-20 SS-19 SS-13 SS-20 Field Sa Depth In SS-20 PCBs (n Total PC SVOCs (Benzo (a Benzo (a Benzo (b Benzo (b Benzo (b Benzo (b Benzo (b Benzo (b Benzo (b Benzo (b Benzo (b) Benzo (b	nple ID SS-1 erval 0 - 1.92 Date 12/8/20 g/kg) 3s Bas 9.75 mg/kg) 0 anthracene 80 anthracene 9.90 fluoranthene 11.4 a 67.4 (a,h) anthracene 9.51 iene 162 ,2,3-c,d) pyrene 34.5	3 2 IN 005 J J J J J J J J J J J J J J J J J	Benzo(k)fluc Chrysene Dibenzo (a,h Fluoranthen Hexachlorot Indeno (1,2,	oranthene	1 0.33 100 0.33 0.5 100
Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo (a,h) anthracene Indeno (1,2,3-c,d) pyrene Legend Surface Soil S Post Excavatio Soil Boring HCC Property	14 19 5.5 15 1.7 J 7.5 Sample on Soil Sample	Field Sample ID Depth Interval Sample Date PCBs (mg/kg) Total PCBs SVOCs (mg/kg) Benzo (a) anthracene Benzo (b) fluoranthen Benzo (b) fluoranthene Benzo (b) fluoranthene Chrysene Dibenzo (a,h) anthrac	SS-11 0 - 1.92 IN 12/8/2005 4.36 4.36 5.2 5.41 ae 8.75 J a 2.62 5.06 cene 1.08	SB-01	SB-20 SS-19 SS-13 SS-20 Field Sa Depth In SS-20 PCBs (n Total PC SVOCs (Benzo (a Benzo (a Benzo (b Benzo (b Benzo (b Benzo (b Benzo (b Benzo (b Benzo (b Benzo (b Benzo (b) Benzo (b	nple ID SS-1 erval 0 - 1.92 Date 12/8/20 g/kg) 3s Bas 9.75 mg/kg) 0 anthracene 80 anthracene 9.90 fluoranthene 11.4 a 67.4 (a,h) anthracene 9.51 iene 162 ,2,3-c,d) pyrene 34.5	3 2 IN 005 J J J J J J J J J J J J J J J J J	Benzo(k)fluc Chrysene Dibenzo (a,h Fluoranthen Hexachlorot Indeno (1,2,	oranthene	1 0.33 100 0.33 0.5 100

50 100 0 Feet

MKE \\LSG31019756\GIS\DOW\WATERLOO\MAPDOCS\FIGURE5-_AOCC_ORGANIC_SB.MXD FIGURE5-_AOCC_ORGANIC_SB.MXD 1/17/2008 23:32:38

Figure 2 Organics Above Screening Levels – AOC C – Surface/Subsurface Soil Hampshire Chemical Corporation Waterloo, New York



		0				
A REL	GW-10B			the second s	C RUSCO Resid	
				Arsenic		16
Carrier Contraction	1 Bas	5		Barium Cadium		350 25
- The state	22	-03 0	the generation	Lead		25 400
A DECEMBER OF				Mercury		0.81
ALCONG .	15 33 B.	2		Zinc		2200
The Address of the A	States and	S		Lino	C. There are	EEGG
Contraction in a	S	S-04	A STOR	Location I		SB-02
Internet.	0	SS	S-14	Field Sam		SB-02
ocation ID	SS-09	SB-18 O		Depth Inte		72 - 96 IN
Field Sample ID	SS-09 SS-09		a second	Sample D	ate	12/18/2001
Depth Interval	0 - 1.92 IN	COLOF		Metals (m	ig/kg)	
Sample Date	12/9/2005	SS-05		Arsenic		51
/letals (mg/kg)			12 1	Cadmium		7.7
Arsenic	37.4		A LAND	Location I	D I	SS-11
ocation ID	SB-02B	SS-06	SS-15	Field Sam		SS-11
Field Sample ID	SB-02B SB-2B-0-2			Depth Inte	erval	0 - 1.92 IN
Depth Interval	0 - 24 IN			Sample D		12/8/2005
Sample Date	4/20/2004	SS-07	ALT	Metals (m	ig/kg)	
Aetals (mg/kg)			1000	Mercury		2.84
Arsenic	34.4	The second	A BAY			
ocation ID	SS-10	E all and	-	Location II		SB-01A SB-1A-0-2
Field Sample ID	SS-10 SS-10	SS-08	E land	Field Sam Depth Inte		SB-1A-0-2 0 - 24 IN
Depth Interval	0 - 1.92 IN		SS-16	Sample D		4/19/2004
Sample Date	12/9/2005	SB-19	The second second	Metals (m		-1/10/2004
Aetals (mg/kg)			A A A	Arsenic	וציייש:	21.8
Arsenic	27.2			r neorino	North Martin	
Cadmium	5.83			Location II	DI	SS-13
Zinc	3190	SS-09		Field Sam		SS-13
1 12 16	and the second second		- SS-1	7 Depth Inte		0 - 1.92 IN
ocation ID	AOCC-EX2		and the second	Sample D		12/8/2005
Field Sample ID	AOCC-EX2-WALL	SB-02B	SB-02A	Metals (m	ig/kg)	
Depth Interval	18 - 30 IN	SS-10	SB-01B	Arsenic		20.9
Sample Date	10/11/1999		SS-18	and the second		75
/letals (mg/kg)	17.00	B-02		ocation ID	and a state of	SS-20
Arsenic	24.3	SS-11		Field Sample ID	SS-20A	SS-20B
Cadium	43.2			Depth Interval	0 - 2 IN	2 - 8 IN
Lead	634 A	OCC-EX2		Sample Date	8/14/2007	8/14/2007
Zinc	18700	THE PARTY OF		Metals (mg/kg) Arsenic	17	33.4
		SB-01 🔂 S	S-12	Cadmium	2.87	6.17
Legend				-	Martin and the	A STATE OF THE STATE
		SB-20		A. A.	And Street on The Owner,	ALC: NOT
Surface Soi	Sample				L	
Post Excava	ation Soil Sample		SS	Location	n ID	SS-19
Soil Boring					ample ID	SS-19B
			and the second se	Depth II		2 - 12 IN
HCC Prope	rty Boundary	SS-1	3	SS20 Sample	Date	8/14/2007
AOC Locati	on 📔	1		SS-20 Metals	(mg/kg)	
			1 2 2	Arsenic		31.3
		- A - CARL	a with the se			A second second
t the second	Locatio		05.007		3-20	05.005
118		ample ID	SB-20A 2 - 12 IN	SB-20C 36 - 60 IN	SB-20E 84 - 108 IN	SB-20F 108 - 132 IN
J	Field S	Intonyol	Z - 1 Z IIN	- DU IN		108 - 132 IN 12/8/2005
J	Field S Depth	Interval Date			12/8/2005	
IN = Inches	Field S Depth Sample	e Date	12/8/2005	12/8/2005	12/8/2005	12/0/2000
	Field S Depth Sample Metals	e Date (mg/kg)	12/8/2005	12/8/2005		
Notes:	Field S Depth Sample Metals Arsenie Bariur	e Date (mg/kg) C			12/8/2005 16.6 NE	NE 393
Notes: Locations not reporting da	Arseniu Arseniu Arseniu Barium CO Residential	e Date (mg/kg) c um	12/8/2005 19.7 NE NE	12/8/2005 NE NE 3.25	16.6 NE NE	NE 393 NE
Notes:	Field S Depth Sample Metals Arsenie Barium Barium	e Date (mg/kg) c um	12/8/2005 19.7 NE	12/8/2005 NE NE	16.6 NE	NE 393
Notes: Locations not reporting da	Arseniu Arseniu Arseniu Barium CO Residential	e Date (mg/kg) c um	12/8/2005 19.7 NE NE	12/8/2005 NE NE 3.25	16.6 NE NE	NE 393 NE
Notes: Locations not reporting da	Arseniu Arseniu Arseniu Barium CO Residential	e Date (mg/kg) c um	12/8/2005 19.7 NE NE	12/8/2005 NE NE 3.25 3.42	16.6 NE NE	NE 393 NE

γ→ C 23 Feet Metals Above Screening Levels - AOC C - Surface/Subsurface Soil Hampshire Chemical Corporation Waterloo, New York

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