RCRA Corrective Action
Environmental Indicator (EI) RCRA Info code (CA750)
Migration of Contaminated Groundwater Under Control

Facility Name: **R.V. Hopkins, Inc.**
Facility Address: **743 Schmidt Road, Davenport, IA 52802**
Facility EPA ID #: **IAD022096028**

DETERMINATION RESULT: YE

1. Has **all** available relevant/significant information on known and reasonably suspected releases to the groundwater media, subject to RCRA Corrective Action (e.g., from Solid Waste Management Units (SWMU), Regulated Units (RU), and Areas of Concern (AOC)), been **considered** in this EI determination?

   X If yes - check here and continue with #2 below.

   _____ If no - re-evaluate existing data, or

   _____ if data are not available, skip to #8 and enter"IN" (more information needed) status code.

BACKGROUND

The R.V. Hopkins, Inc. (RVH), facility is at 743 Schmidt Road in Davenport, Iowa (see Figure 1), along the Mississippi River. Since 1964, the facility has reclaimed and recycled drums and stored and treated hazardous waste. The Resource Conservation and Recovery Act (RCRA) facility assessment (RFA), prepared by Metcalf & Eddy (M&E) (1993), identified 12 solid-waste management units (SWMU). Figure 2 shows the site layout in 1993, including the SWMUs defined by the RFA, and Figure 3 shows the site layout in 2000, at the time of the revised closure plan. Except where noted, the descriptions of SWMUs are derived from the RFA (1993).

SWMU 1, Landfill. The northeastern portion of the RVH property is built over a former quarry used as a landfill from 1935 to 1975 (see Figure 2). The maximum depth of the landfill was 40 to 60 feet, and it was covered with a dirt cap of unknown depth. Caustic sludge, tires, shingles, acids, metals, oil wastes, construction wastes, paint sludge, batteries, paint pigments, and other unidentified wastes may have been disposed of in the landfill. Metals, volatile organic compounds (VOC), pesticides, and polychlorinated biphenyls (PCB) all have been detected in soil and groundwater samples from this area.

SWMU 2, Former Outside Drum Storage Areas. In different areas of SWMU 2, RVH stored drums containing materials generated by two different processes. In one area, located in the north-central part of the facility, RVH stored as many as 862 drums containing chromate paint sludge generated by Nichols-Homeshield during the manufacture of aluminum siding. In three separate areas in the northern portion of the facility, RVH stored as many as 844 drums of waste generated by its own processes of removing paint from drums and repainting drums; these wastes also may have been mixed with residual liquids (including waste oil and organic solvents) from the drums. Metals, VOCs, pesticides, and PCBs have all been detected in soil and groundwater samples from the areas of SWMU 2. RV Hopkins began paving the facility in late 2001. The areas of SWMU 2 are now paved (see Figure 4).

SWMU 3, Warehouse Drum Storage Area. At the time of the RFA, the warehouse in SWMU 3 stored 3,610 drums of hazardous and nonhazardous waste generated by RVH processes (see Figure 2). Wastes included paint filters, furnace ash, and caustic sludge. Drums containing waste were removed during 1994 closure activities (M&E 1994; Environmental Associated Services and Engineering, Inc. [EASE] 1994), and subsequent reports by Preston Engineering, Inc. (Preston 2000) and U.S. Environmental Protection Agency (EPA 2001) suggest the warehouse has remained empty. Dust collected from the floor of the warehouse contained metals, VOCs, and pesticide; standing water has been observed on the floor of the warehouse. The warehouse floor was concrete, but the integrity of the floor under the drums was not determined during the RFA. RV Hopkins and EPA have collected samples from beneath the floor of the Warehouse Drum Storage Area. The analytical results show several volatile organic compounds (see Tables 2 and 3).

SWMU 4, Wastepile. Caustic sludge and paint waste generated by hazardous waste treatment processes on the RVH property were stored in a wastepile in the warehouse (see Figure 2). The wastepile was kept in a storage enclosure with concrete walls on three sides. Beginning in 1985, about 170 cubic yards of caustic sludge and paint waste mixture was stored in SWMU 4. The wastepile was removed during 1994 closure activities (EASE 1994), and subsequent reports by Preston (2000) and EPA (2001) suggest the warehouse has remained empty. Standing water was observed on the floor of the warehouse, and cracks were found in the concrete floor under the wastepile after the pile was removed (M&E 1994). No confirmation samples were collected after the pile was removed. RV Hopkins and EPA have collected samples from beneath the floor of the Warehouse Drum Storage Area (see Figure 5). The analytical results show several volatile organic compounds (see Table 2 and Attachment 1).

SWMU 5, Former Baghouse. Until 1990, baghouse dust generated by the shotblast unit (used to remove paint residue from drums) was collected in open drums in SWMU 5. The dirt-floor baghouse was located northeast of the manufacturing building (see Figure 2). Dust collected in this area contained RCRA metals – including arsenic, barium, cadmium, chromium, lead, mercury, and selenium – and soils collected from near the baghouse contained metals and VOCs. The baghouse was removed in 1989.

SWMU 6, Baghouse. Installed in 1990 near the old baghouse (see Figure 3), the new baghouse was built on a concrete pad. Dust from the shotblast unit is collected in drums or hoppers in the baghouse (EPA 2001). Although the new baghouse was designed to contain emissions from the shotblast unit, RFA investigators observed particulate emissions from this baghouse. They collected surface soil near the new baghouse that contained metals and VOCs. In 2001, RVH employees stated that baghouse dust had been determined nonhazardous in 1999 (EPA 2001).

SWMU 7, Drum Reclamation Furnace. The original drum reclamation furnace was constructed in 1974 and was dismantled and removed in 1996 (EPA 2001). It was used to burn residue remaining in the drums and remove residual paint from the exterior of the drums. For some unspecified period, material was drained from the drums into a satellite accumulation area just outside the furnace. Ash accumulated underneath the furnace and was stored in drums in various parts of the facility (see Figures 2 and 3). Surface soil samples collected near the furnace contained VOCs and metals. The area of SWMU 7 are now paved (see Figure 4).

SWMU 8, Drainage Ditch. An unlined drainage ditch runs along a berm on the eastern border of the property (see Figure 2). It was constructed for containment purposes only and has no outlets from the property. Without the berm, surface water would naturally flow south-southeast, toward the Mississippi River. According to the facility operator, hazardous wastes were not disposed of in the ditch after November 19, 1980, although the ditch had previously been used to dispose of some of the facility’s wastes. However, as described in the RFA, a RCRA inspector observed wastes in the ditch in 1981. Soil collected from the ditch contained metals, pesticides, and PCBs, and surface water and groundwater contained VOCs and metals.

SWMU 9, Former Caustic Waste Storage Tanks. As described in the RFA, a RCRA compliance evaluation inspection (CEI) conducted in 1981 observed two above-ground storage tanks near the manufacturing building; they had capacities of 1,000 and 2,000 gallons and contained waste caustic. No soil or other environmental samples were collected from the area of the tanks, but the RCRA inspector noted that the tanks were corroded and observed fresh caustic spilled on the ground around the tanks. By the end of 1981, EPA reports stated that the tanks had been emptied and cleaned. The facility owners planned to use the tanks as part of a hazardous waste treatment operation. At the time of the RFA, the facility operators stated that no large tanks were on the property, and the disposition or use of tanks after 1981 was unknown. Moreover, the facility operators did not know the current location of the tanks.

SWMU 10, Waste Caustic Tank. At the time of the RFA, caustic waste was accumulating in an above-ground, steel, storage tank (capacity less than 1,000 gallons) located at the northwest corner of the warehouse. The tank was open, on a concrete pad, and covered with canvas. Shortly after the RFA, in 1993, the tank was emptied and cleaned, and the facility resumed storing waste caustic in 55-gallon drums. The tank was also used to hold storm water pumped from loading dock areas. No environmental samples were collected in the area of SWMU 10, but the waste contained in the tank was corrosive and flammable; it also contained lead and chromium. The current disposition of the tank is unknown.

SWMU 11, Satellite Accumulation Area. SWMU 11 is the satellite accumulation area in the main production building; it is on a concrete floor. Residual material containing waste oil and other liquid wastes (from drums about to be cleaned in the caustic bath) is drained into 55-gallon drums in this area. No environmental samples have been collected in this area.

SWMU 12, Stormwater Collection Pit. The stormwater collection pit (about 10 feet deep) was located west of the drum reclamation furnace. The pit was used to collect runoff from the area of the furnace and may have been used to collect quench water from the furnace at some time in the past. Overflow from the pit would have drained into the municipal sewers. At the time of the RFA, the pit also contained solid material that appeared to be burner ash and surface soil. The containment and integrity of the pit is unknown.

Additional Areas. Additional waste management areas were identified during a site assessment in 1997. In 1996, a RCRA inspector had observed 675 drums of hazardous waste (including furnace ash and baghouse dust) at the facility. More than 300 drums of burner ash were staged outside, near the north side of the warehouse (Ecology and Environment, Inc. [E&E] 1997). By the time of the 1997 site assessment, the drums of burner ash had been moved to the northern part of the property where they were stored on pallets (see Figure 3). The 1997 site assessment found 340 drums of baghouse dust stored in two locations – the northwestern corner of the facility and the northeastern corner of the manufacturing building (see Figure 3) (E&E 1997). The site assessment report does not specify whether these drums containing baghouse dust were stored on bare ground. The 1997 site assessment observed four semi trailers that contained drums labeled as characteristic lead and cadmium hazardous waste; their locations are shown on Figure 3. In all, the trailers contained 344 drums (E&E 1997). The 1997 site assessment also found two waste piles on plastic sheeting in the northwestern corner of the property (see Figure 3). According to the facility manager, the waste piles were from the drum reclamation furnace. They were mixes of brick, rock, and dust (E&E 1997). The drums and wastepiles contained VOCs and metals. By 2000, the drum storage areas, the two wastepiles, and all but one of the trailers apparently had been removed (Preston 2000). The last trailer was removed in August 2001 (Preston 2001b). Significant areas of the facility are now paved (see Figure 4).

Definition of Environmental Indicators (for the RCRA Corrective Action)

Environmental Indicators (EI) are measures being used by the RCRA Corrective Action program to go beyond programmatic activity measures (e.g., reports received and approved, etc.) to track changes in the quality of the environment. The two EI developed to-date indicate the quality of the environment in relation to current human exposures to contamination and the migration of contaminated groundwater. An EI for non-human (ecological) receptors is intended to be developed in the future. __

Definition of "Migration of Contaminated Groundwater Under Control" EI

A positive "Migration of Contaminated Groundwater Under Control" EI determination ("YE" status code) indicates that the migration of "contaminated" groundwater has stabilized, and that monitoring will be conducted to confirm that contaminated groundwater remains within the original "area of contaminated groundwater" (for all groundwater "contamination" subject to RCRA corrective action at or from the identified facility (i.e., site-wide)).

Relationship of EI to Final Remedies

While Final remedies remain the long-term objective of the RCRA Corrective Action program the EI are near-term objectives which are currently being used as Program measures for the Government Performance and Results Act of 1993, GPRA). The "Migration of Contaminated Groundwater Under Control" EI pertains ONLY to the physical migration (i.e., further spread) of contaminated ground water and contaminants within groundwater (e.g., non-aqueous phase liquids or NAPLs). Achieving this EI does not substitute for achieving other stabilization or final remedy requirements and expectations associated with sources of contamination and the need to restore, wherever practicable, contaminated groundwater to be suitable for its designated current and future uses.

Duration / Applicability of EI Determinations

EI Determinations status codes should remain in RCRA Info national database ONLY as long as they remain true (i.e., RCRA Info status codes must be changed when the regulatory authorities become aware of contrary information).

Table 1 - Analytical Results from Soil Beneath Sludgemaster Building (µg/kg)

Analyte	Statewide Standard	Sample Location					
		#1	#2	#3	#4	#5	#6
Acetone	7,800,000	**117**	**196**	**153**	**294**	**229**	**59**
Benzene	73,000	<5.4	**9**	**11**	<5.5	**16**	<5.5
n-Butylbenzene		<5.4	<5.7	<5.4	**48**	<5.6	<5.5
sec-Butylbenzene		<5.4	<5.7	<5.4	**11**	<5.6	<5.5
tert-Butylbenzene		<5.4	<5.7	<5.4	**30**	<5.6	<5.5
Chlorobenzene	1,600,000	<5.4	<5.7	<5.4	**19**	<5.6	<5.5
Ethylbenzene	7,800,000	<5.4	**8**	**15**	**847**	**9**	<5.5
Hexane	4,700,000	**34**	<29	**37**	<28	<28	<27
Isopropylbenzene		<5.4	<5.7	<5.4	**40**	<5.6	<5.5
Naphthalene	1,600,000	<27	<29	<27	**238**	<28	<27
n-Propylbenzene		<5.4	<5.7	<5.4	**68**	<5.6	<5.5
Tetrachloroethene		<5.4	<5.7	<5.4	**37**	<5.6	<5.5
Toluene	16,000,000	**11**	**11**	**21**	**154**	**9**	<5.5
1,1,1-Trichloroethane	2,700,000	<5.4	**6**	<5.4	**8**	<5.6	<5.5
1,1,2-Trichloroethane	310,000	<5.4	<5.7	<5.4	**16**	<5.6	<5.5
1,2,4-Trimethylbenzene	780,000	**6**	<5.7	**9**	**337**	<5.6	<5.5
1,3,5-Trimethylbenzene	470,000	<5.4	<5.7	<5.4	**136**	<5.6	<5.5
Xylenes, Total	160,000,000	<16	**19**	**27**	**25,200**	**38**	<16

2. Is **groundwater** known or reasonably suspected to be **"contaminated'**[1] above appropriately protective "levels" (i.e., applicable promulgated standards, as well as other appropriate standards, guidelines, guidance, or criteria [e.g., Maximum Contaminant Levels (MCLs), the maximum permissible level of a contaminant in water delivered to any user of a public water system under the Safe Drinking Water Act]) from releases subject to RCRA Corrective Action, anywhere at, or from, the facility?

X If yes - continue after identifying key contaminants, citing appropriate "levels," and referencing supporting documentation.

_____ If no - skip to #8 and enter "YE" status code, after citing appropriate "levels," and referencing supporting documentation to demonstrate that groundwater is not "contaminated."

_____ If unknown - skip to #8 and enter "IN" status code.

Rationale and Reference(s):

The RVH facility is at 743 Schmidt Road, in an industrial area of Davenport, Iowa (see Figure 1). It is bounded by U.S. Highway 61 and the Mississippi River to the south and east and by railroad tracks to the north and west. Midwest Metals, Inc. (Midwest Metals), and Harcros Chemicals, Inc. (Harcros), are located east of the RVH facility. Searches of 2003 telephone directories indicate that the facility is still surrounded by industrial properties (Switchboard.com 2003).

Industrial activities began in the area in the mid-1800s with the manufacture of railroad locomotives. In 1892, the area was used as a stone quarry, which was converted to a landfill some time in the 1930s (M&E 1993). A variety of wastes were disposed of in the landfill, including construction and industrial waste. Before purchased by RVH, the property was also used by a battery company which cracked lead-acid batteries at the site. RVH began drum reclamation operations at a location across the street in 1951, purchased the 743 Schmidt Road property in 1964, filled the landfill with foundry sand, and resumed drum reclamation activities. In the RFA, a facility representative stated that the facility had never accepted drums which contained pesticides, herbicides, PCBs, or radioactive material but admitted that in the 1970s the facility may have accepted drums which contained chemicals used in the formulation of pesticides. According to the most recent CEI, RVH now only accepts drums that contained oil, waste oil, antifreeze, mild cleaners, paints, and food (EPA 2001).

In addition to the drum reclamation operation, Sludgemaster, Inc. (Sludgemaster), and Barriers, Inc. (Barriers), operated a hazardous waste treatment facility on the RVH property. The exact relationship between Sludgemaster, Barriers, and RVH is unclear – Sludgemaster and Barriers may have been owned by the owners of RVH. Hazardous waste was treated by a chemical stabilization and dewatering process. This process generated the waste that was managed in SWMU 4. The hazardous waste treatment operation began in 1981 but was defunct by 1988 (M&E 1993).

No permanent surface water bodies exist on the property, but pools of standing water do develop during periods of precipitation (M&E 1993). Storm runoff from the property would naturally flow south and southeast toward the Mississippi River, but RVH constructed a berm to contain surface water on the property. Surface water now infiltrates to groundwater (M&E 1993).

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[1]"Contamination" and "contaminated" describes media containing contaminants (in any form, NAPL and/or dissolved, vapors, or solids, that are subject to RCRA) in concentrations in excess of appropriate "levels" (appropriate for the protection of the groundwater resource and its beneficial uses).

Unconsolidated alluvial sediments sit on Silurian-Devonian bedrock at RVH. Depth to bedrock ranges from 6 to 17 feet, with the former quarry forming a local bedrock depression (M&E 1993; Roberts/Schornick & Associates, Inc. [RSA] 1998). Groundwater at the site typically is found 3.5 to 8 feet below ground surface (bgs), flowing through an unconsolidated, unconfined, alluvial aquifer (M&E 1993). The uppermost layers of the bedrock, which are fractured, also transmit groundwater (CH2MHill 2002). The RFA concluded that at RVH groundwater flows south and southeast toward the Mississippi River (M&E 1993). However, recent investigations at the adjacent Midwest Metals and Harcros facilities have found a persistent groundwater high in the northern portion of the Harcros facility, causing groundwater to flow southwest across Midwest Metals (RSA 1998; CH2MHill 2002). The RV Hopkins monitoring wells were surveyed and water levels measured by EPA in August 2005. Figure 6 shows the resulting groundwater flow determinations.

The RVH facility has been monitored and investigated since at least 1981, when the Scott County Health Department received a citizen complaint that “the area appears quite contaminated” (M&E 1993). In the 1980s, Iowa Department of Environmental Quality (now the Iowa Department of Natural Resources) conducted a number of CEIs, all of which found evidence of mismanaged hazardous waste at the RVH facility (M&E 1993). EPA conducted site investigations in 1982 that identified problems with the management of hazardous constituents at RVH and, in 1983, denied Sludgemaster a permit for its hazardous waste treatment operation (M&E 1993). In the mid-1980s, RVH operated under a consent agreement and compliance order that controlled operations at the facility. EPA conducted a site investigation in 1984 that included installation of five monitoring wells (M&E 1993). RVH prepared an initial closure plan in 1988 that outlined procedures to remove hazardous constituents from SWMUs identified at that time. EPA approved that plan with modifications but never implemented the plan. In 1993, EPA contractors prepared the RFA, which characterized SWMUs and estimated levels of contamination and likely exposure routes associated with each SWMU (M&E 1993). In 1994, RVH removed the Sludgemaster waste piles. EPA inspections in completed in 1997 found additional hazardous waste storage areas (E&E 1997). A revised closure plan was submitted by RVH’s contractor in 2000 (Preston 2000) and was approved by EPA on April 3, 2001. RV Hopkins continues to implement the closure plan.

Groundwater samples at the RVH facility have been collected from five monitoring wells installed during a 1984 site investigation (M&E 1993). One of the wells – MW-4 – was located on the adjacent Midwest Metals property and is no longer sampled as part of RVH’s monitoring program (RSA 1998). This well has been abandoned at the request of Midwest Metals. The other wells are sampled on a semiannual basis. Groundwater samples collected in 1985 and 1986 were analyzed for metals and priority pollutants that included a range of VOCs, semivolatile organic compounds (SVOCs), and pesticides. However, groundwater samples collected for the RFA and for the current, semiannual, groundwater monitoring are only analyzed for metals (M&E 1993; Preston 2003a). Table 2 shows some of groundwater results since 1985, including all constituents that exceeded the EPA MCLs or the EPA Region 9 preliminary remediation goal (PRG) for tap water. Values in bold exceed the MCL or PRG (EPA 2002a, 2002b).

Investigations of groundwater at the RVH facility have focused on metals, although VOCs and pesticides also have exceeded EPA standards for drinking water (M&E 1993). The most contaminated groundwater samples were collected from MW-5 and MW-1, which are downgradient from and closest to the waste management areas in the northern part of the facility (see Figures 2 and 3). In the most recent groundwater sampling results, concentrations of metals have dropped to very low or undetectable levels (Preston 2002, 2003a). Groundwater collected by RVH is not analyzed for hazardous constituents other than metals.

In July 2005, EPA installed two bedrock monitoring wells and one additional alluvial monitoring well. In August 2005, these wells were developed and sampled by EPA. The existing monitoring wells were also sampled by EPA in August 2005. All groundwater samples collected were analyzed for VOCs, SVOCs, Pesticides and Metals. The results of analysis of these groundwater samples are in Attachment 1 (see Figure 5 for the location of the monitoring wells). These analytical results do not show VOC, SVOC or Pesticide concentrations above MCLs or other appropriate health based limit. Analytical results for lead were above the drinking water advisory level (at the tap) of 15 µg/l.

Table 2 – Historical Compounds Detected in Groundwater Samples Compared to Screening Levels

Compound	Concentration (ppm)	Location	Collection Date	EPA MCL* (ppm)
Aldrin	0.0025	MW-1	1985	0.004**
Arsenic	**0.086**	MW-5	1985	0.05
Arsenic	**0.0749**	MW-5	1993	0.05
Arsenic	0.0053	MW-5	June 2002	0.05
Arsenic	0.0343	MW-5	December 2002	0.05
Barium	**2.4**	MW-5	1985	2
Barium	1.68	MW-5	1993	2
Barium	0.241	MW-5	June 2002	2
Barium	0.323	MW-5	December 2002	2
Cadmium	**0.0217**	MW-5	1993	0.005
Cadmium	< 0.00014	MW-5	June 2002	0.005
Cadmium	< 0.00014	MW-5	December 2002	0.005
Chlordane	**0.015**	MW-1	1985	0.002
Chlorethane	0.030 J	MW-1	1985	0.0046**
Chromium	**0.34**	MW-5	1985	0.005
Chromium	**0.262**	MW-5	1993	0.005
Chromium	< 0.0032	MW-5	June 2002	0.005
Chromium	< 0.0098	MW-5	December 2002	0.005
1,1-Dichloroethane	0.038 J	MW-4 (Midwest Metals)	1985	0.810**
trans-1,2-Dichloroethene	0.0520	MW-4 (Midwest Metals)	1986	0.100
Lead	**23**	MW-1	1984	0.015***
Lead	**0.731**	MW-5	1993	0.015***
Lead	0.0010	MW-5	June 2002	0.015***
Lead	< 0.0015	MW-5	December 2002	0.015***
Lindane	**0.00039**	MW-2	1985	0.0002
Mercury	0.0012	MW-1	1985	0.002
Methylene chloride	**5.7 J**	MW-1	1986	0.005
Trichloroethene	**0.009 J**	MW-5	1985	0.005
Vinyl chloride	**0.010**	MW-4 (Midwest Metals)	1986	0.002

Notes:

All references compiled in the Resource Conservation and Recovery Act Facility Assessment (Metcalf & Eddy 1993) and the June 2002 and December 2002 groundwater reports (Preston Engineering, Inc., 2002).

* MCLs are provided here for comparison purposes only. Values in **bold** exceed the MCL.
** EPA does not specify a MCL for this compound (EPA 2002a). This value is the EPA Region 9 PRG for tapwater (2002b).
*** EPA specifies an action level for lead, rather than an MCL (EPA 2002a).
EPA = U.S. Environmental Protection Agency
J = Estimated
MCL = Maximum contaminant level
ppm = Parts per million
PRG = Preliminary remediation goals

3. Has the **migration** of contaminated groundwater **stabilized** (such that contaminated groundwater is expected to remain within "existing area of contaminated groundwater"[2] as defined by the monitoring locations designated at the time of this determination)?

__X__ If yes - continue, after presenting or referencing the physical evidence (e.g., groundwater sampling/measurement/migration barrier data) and rationale why contaminated groundwater is expected to remain within the (horizontal or vertical) dimensions of the "existing area of groundwater contamination"[2]).

_____ If no (contaminated groundwater is observed or expected to migrate beyond the designated locations defining the "existing area of groundwater contamination"[2]) - skip to #8 and enter "NO" status code, after providing an explanation.

______ If unknown - skip to #8 and enter "IN" status code.

Rationale and Reference(s):

The results of groundwater samples collected and analyzed by EPA in August 2005 show that contaminated groundwater has stabilized.

[2] "existing area of contaminated groundwater" is an area (with horizontal and vertical dimensions) that has been verifiably demonstrated to contain all relevant groundwater contamination for this determination, and is defined by designated (monitoring) locations proximate to the outer perimeter of "contamination" that can and will be sampled/tested in the future to physically verify that all "contaminated" groundwater remains within this area, and that the further migration of "contaminated" groundwater is not occurring. Reasonable allowances in the proximity of the monitoring locations are permissible to incorporate formal remedy decisions (i.e., including public participation) allowing a limited area for natural attenuation.

4. Does "contaminated" groundwater **discharge** into **surface water** bodies?

_____ If yes - continue after identifying potentially affected surface water bodies.

__X__ If no - skip to #7 (and enter a "YE" status code in #8, if #7 = yes) after providing an explanation and/or referencing documentation supporting that groundwater "contamination" does not enter surface water bodies.

_____ If unknown - skip to #8 and enter "IN" status code.

Rationale and Reference(s):

5. Is the **discharge** of "contaminated" groundwater into surface water likely to be **"insignificant"** (i.e., the maximum concentration[3] of each contaminant discharging into surface water is less than 10 times their appropriate groundwater "level," and there are no other conditions (e.g., the nature, and number, of discharging contaminants, or environmental setting), which significantly increase the potential for unacceptable impacts to surface water, sediments, or eco-systems at these concentrations)?

_____ If yes - skip to #7 (and enter "YE" status code in #8 if #7 = yes), after documenting: 1) the maximum known or reasonably suspected concentration[3] of key contaminants discharged above their groundwater "level," the value of the appropriate "level(s)," and if there is evidence that the concentrations are increasing; and 2) provide a statement of professional judgement/explanation (or reference documentation) supporting that the discharge of groundwater contaminants into the surface water is not anticipated to have unacceptable impacts to the receiving surface water, sediments, or eco-system.

_____ If no - (the discharge of "contaminated" groundwater into surface water is potentially significant) - continue after documenting: 1) the maximum known or reasonably suspected concentration[3] of each contaminant discharged above its groundwater "level," the value of the appropriate "level(s)," and if there is evidence that the concentrations are increasing; and 2) for any contaminants discharging into surface water in concentrations[3] greater than 100 times their appropriate groundwater "levels," the estimated total amount (mass in kg/yr) of each of these contaminants that are being discharged (loaded) into the surface water body (at the time of the determination), and identify if there is evidence that the amount of discharging contaminants is increasing.

_____ If unknown - enter "IN" status code in #8.

Rationale and Reference(s):

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[3] As measured in groundwater prior to entry to the groundwater-surface water/sediment interaction (e.g., hyporheic) zone.

6. Can the **discharge** of "contaminated" groundwater into surface water be shown to be "**currently acceptable**" (i.e., not cause impacts to surface water, sediments or eco-systems that should not be allowed to continue until a final remedy decision can be made and implemented[4])?

_____ If yes - continue after either: 1) identifying the Final Remedy decision incorporating these conditions, or other site-specific criteria (developed for the protection of the site's surface water, sediments, and eco-systems), and referencing supporting documentation demonstrating that these criteria are not exceeded by the discharging groundwater; OR 2) providing or referencing an interim-assessment[5], appropriate to the potential for impact, that shows the discharge of groundwater contaminants into the surface water is (in the opinion of a trained specialists, including ecologist) adequately protective of receiving surface water, sediments, and eco-systems, until such time when a full assessment and final remedy decision can be made. Factors which should be considered in the interim-assessment (where appropriate to help identify the impact associated with discharging groundwater) include: surface water body size, flow, use/classification/habitats and contaminant loading limits, other sources of surface water/sediment contamination, surface water and sediment sample results and comparisons to available and appropriate surface water and sediment "levels," as well as any other factors, such as effects on ecological receptors (e.g., via bio-assays/benthic surveys or site-specific ecological Risk Assessments), that the overseeing regulatory agency would deem appropriate for making the EI determination.

_____ If no - (the discharge of "contaminated" groundwater can not be shown to be "**currently acceptable**") - skip to #8 and enter "NO" status code, after documenting the currently unacceptable impacts to the surface water body, sediments, and/or eco-systems.

_____ If unknown - skip to 8 and enter "IN" status code.

Rationale and Reference(s):

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[4] Note, because areas of inflowing groundwater can be critical habitats (e.g., nurseries or thermal refugia) for many species, appropriate specialist (e.g., ecologist) should be included in management decisions that could eliminate these areas by significantly altering or reversing groundwater flow pathways near surface water bodies.

[5]The understanding of the impacts of contaminated groundwater discharges into surface water bodies is a rapidly developing field and reviewers are encouraged to look to the latest guidance for the appropriate methods and scale of demonstration to be reasonably certain that discharges are not causing currently unacceptable impacts to the surface waters, sediments or eco-systems.

7. Will groundwater **monitoring** / measurement data (and surface water/sediment/ecological data, as necessary) be collected in the future to verify that contaminated groundwater has remained within the horizontal (or vertical, as necessary) dimensions of the "existing area of contaminated groundwater?"

__X__ If yes - continue after providing or citing documentation for planned activities or future sampling/measurement events. Specifically identify the well/measurement locations which will be tested in the future to verify the expectation (identified in #3) that groundwater contamination will not be migrating horizontally (or vertically, as necessary) beyond the "existing area of groundwater contamination."

_____ If no - enter "NO" status code in #8.

_____ If unknown - enter "IN" status code in #8.

Rationale and Reference(s):

RV Hopkins is required to monitor groundwater collected from the onsite wells for lead under a post-closure monitoring plan.

8. Check the appropriate RCRA Info status codes for the Migration of Contaminated Groundwater Under Control EI (event code CA750), and obtain Supervisor (or appropriate Manager) signature and date on the EI determination below (attach appropriate supporting documentation as well as a map of the facility).

__X__ YE - Yes, "Migration of Contaminated Groundwater Under Control" has been verified. Based on a review of the information contained in this EI determination, it has been determined that the "Migration of Contaminated Groundwater" is "Under Control" at the **R.V. Hopkins, Inc.,** facility, EPA ID # **IAD022096028**, located at **Davenport, Iowa**. Specifically, this determination indicates that the migration of "contaminated" groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the "existing area of contaminated groundwater" This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.

_____ NO - Unacceptable migration of contaminated groundwater is observed or expected.

_____ IN - More information is needed to make a determination.

Completed by ____________________ Date 9/20/05
(signature)
Kenneth Herstowski
Project Manager, RCRA Corrective Action & Permits Branch
EPA Region 7

Supervisor ____________________ Date 9/20/05
(signature)
Donald Toensing
Branch Chief, RCRA Corrective Action & Permits Branch
EPA Region 7

Locations where References may be found:

EPA Region 7 Headquarters
RCRA Files
901 North 5th Street
Kansas City, Kansas 66101

Contact telephone and e-mail numbers

Kenneth Herstowski
(913) 551-77631
herstowski.ken@epa.gov

REFERENCES

CH2MHill. 2002. "Final Site Investigation Report, 2040 W. River Drive, Davenport, Iowa." December 2.

Ecology and Environment, Inc. (E&E). 1997. "Site Assessment of R.V. Hopkins, Inc." July.

Environmental Protection Agency, U.S. (EPA). 2001. "Report of Compliance Inspection at R.V. Hopkins, Inc." September 27.

EPA. 2002a. "National Primary Drinking Water Standards." EPA 816-F-02-013. July.

EPA. 2002b. "Region 9 Preliminary Remediation Goals." October 10.

Environmental Associated Services and Engineering (EASE). 1994. "R.V. Hopkins, Inc., Final Report." July 5.

Metcalf & Eddy, Inc. (M&E). 1993. "RCRA Facility Assessment Report, Agency Final Report for R.V. Hopkins." October 25.

M&E. 1994. "Closure Oversight Report for R.V. Hopkins, Inc." March 27.

Preston Engineering, Inc. 2000. "Revised Closure Plan for R.V. Hopkins, Inc." November.

Preston. 2001a. "Closure Certification." July 13.

Preston. 2001b. "Trailer Inspection and Sample Results." August 30.

Preston. 2002. "June 2002 Sampling Results." July 22.

Preston. 2003a. "December 2002 Sampling Results." January 6.

Preston. 2003b. "January 15, 2003, Closure Certification." January 13.

Roberts/Schornick & Associates, Inc. [RSA]. 1998. "Expanded Phase II Environmental Assessment, Midwest Metals, Inc., Davenport, Iowa." July 15.

Switchboard.com. 2003. Accessed on June 6. On-line Address: www.switchboard.com

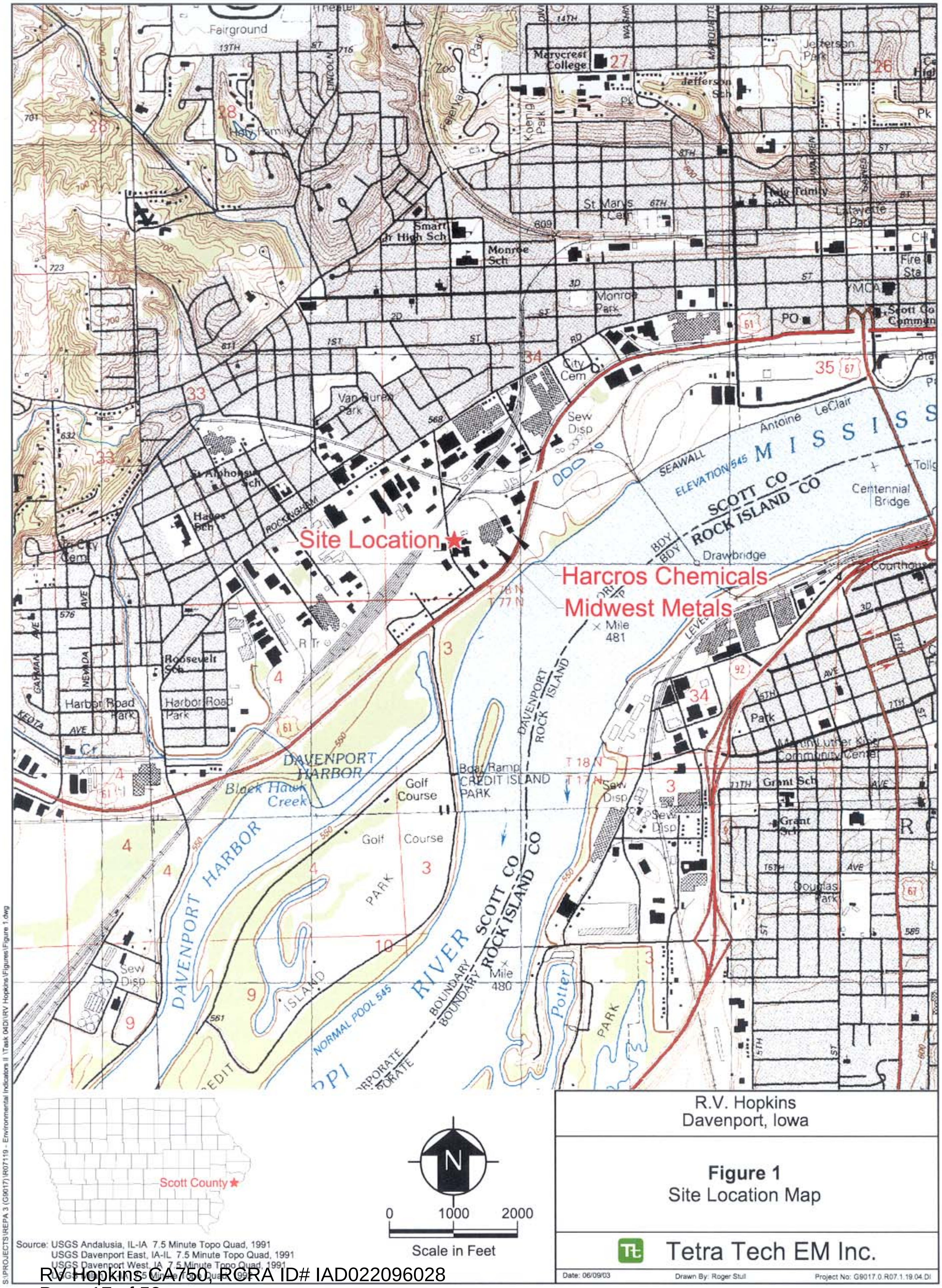
U.S. Geologic Survey. 1993. 7.5-Minute Series Topographic Map of Davenport East, Iowa, Quadrangle.

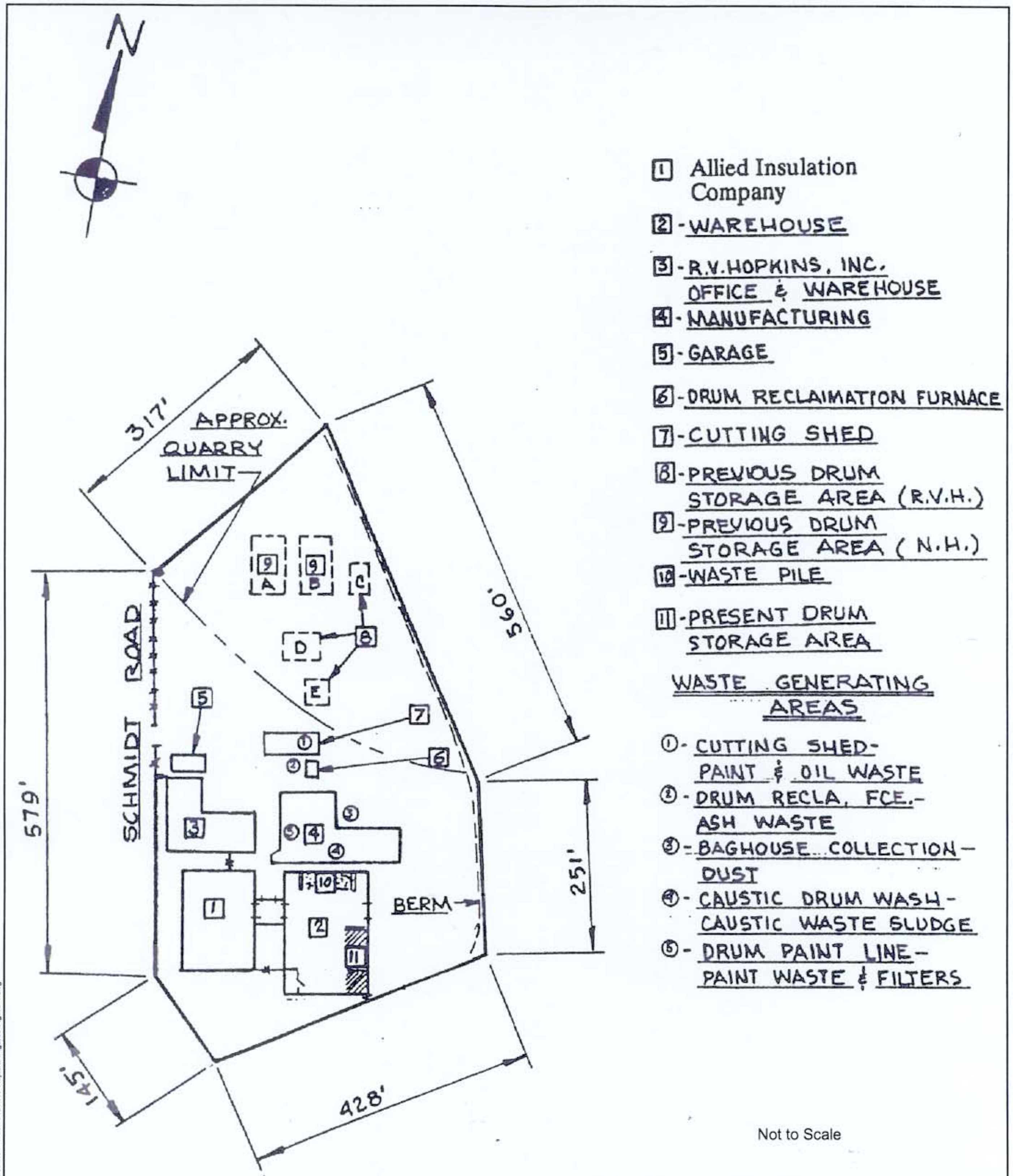
EPA 2005. "Sample Analysis Results for ASR #2710, RV Hopkins." September 16.

SES 2005a. "Sampling Trip Report for RV Hopkins." September 12.

SES 2005b. "Monitoring Well Total Station Survey."

Figures
(6 pages)


Site Location
Harcros Chemicals
Midwest Metals
Fairground
Marycrest College
Jefferson Sch
Smart Jr High Sch
Monroe Sch
Monroe Park
St Marys Cem
City Cem
Van Buren Park
St Alphonsus Sch
Hayes Sch
Roosevelt Sch
Harbor Road Park
DAVENPORT HARBOR
Black Hawk Creek
Golf Course
Boat Ramp
CREDIT ISLAND PARK
DAVENPORT HARBOR
MISSISSIPPI RIVER
NORMAL POOL 545
SCOTT CO
ROCK ISLAND CO
Centennial Bridge
Drawbridge
Mile 481
Mile 480
T 78 N
T 77 N
T 18 N
T 17 N
Scott County
0 1000 2000
Scale in Feet
R.V. Hopkins
Davenport, Iowa
Figure 1
Site Location Map
Tetra Tech EM Inc.
Source: USGS Andalusia, IL-IA 7.5 Minute Topo Quad, 1991
USGS Davenport East, IA-IL 7.5 Minute Topo Quad, 1991
USGS Davenport West, IA 7.5 Minute Topo Quad, 1991
Date: 06/09/03
Drawn By: Roger Stull
Project No: G9017.0.R07.1.19.04.DI



R.V. Hopkins
Davenport, Iowa

Figure 2
Site Layout as of 1993

Tetra Tech EM Inc.

Date: 06/09/03 Drawn By: Roger Stull Project No: G9017.0.R07.1.19.04.DI

Source: Modified from Metcalf & Eddy, Inc., 1993

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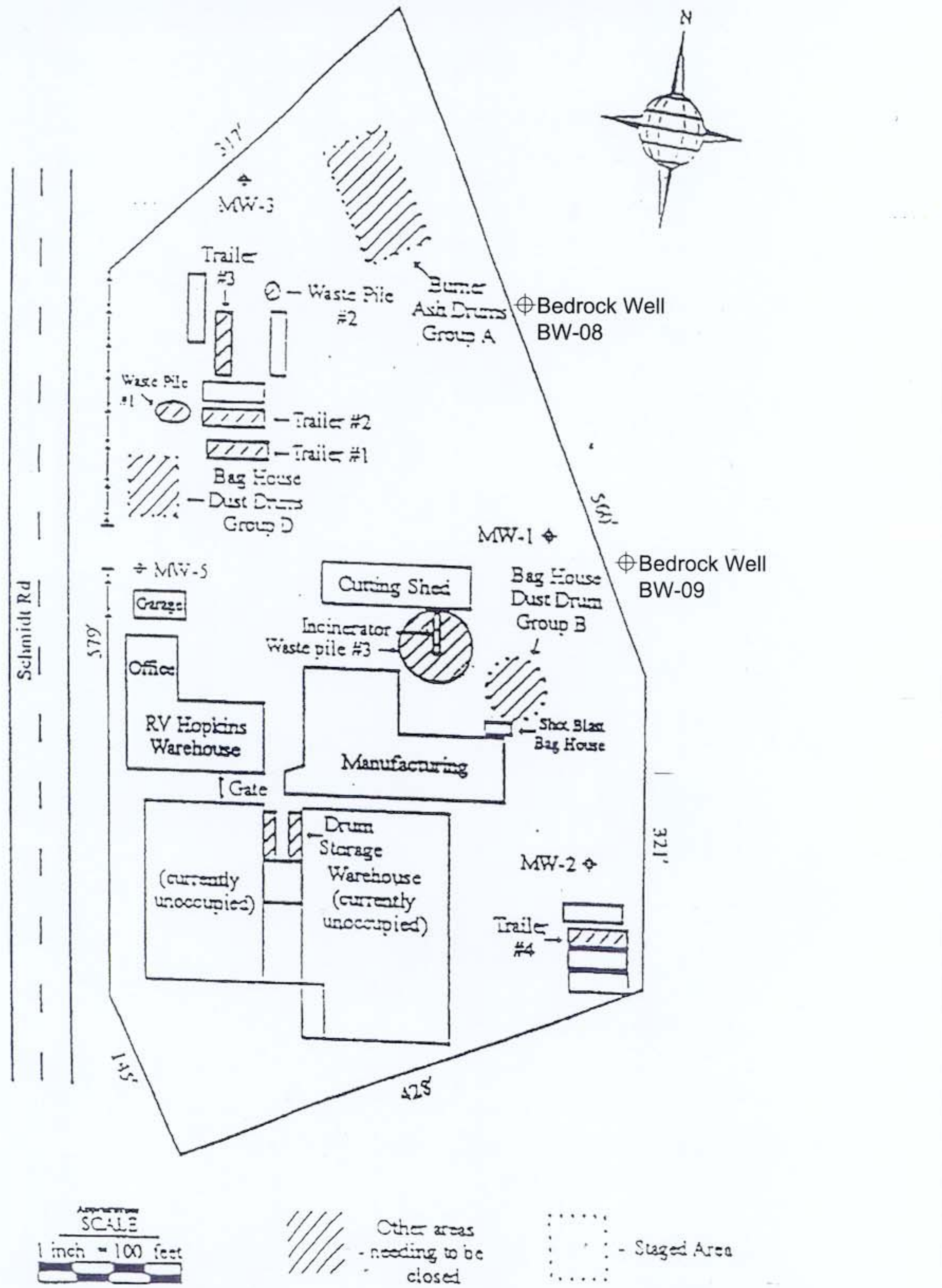

R.V. Hopkins
Davenport, Iowa

Figure 3
Site Layout as of 2000

Tetra Tech EM Inc.

Date: 06/09/03 | Drawn By: Roger Stull | Project No: G9017.0.R07.1.19.04.DI

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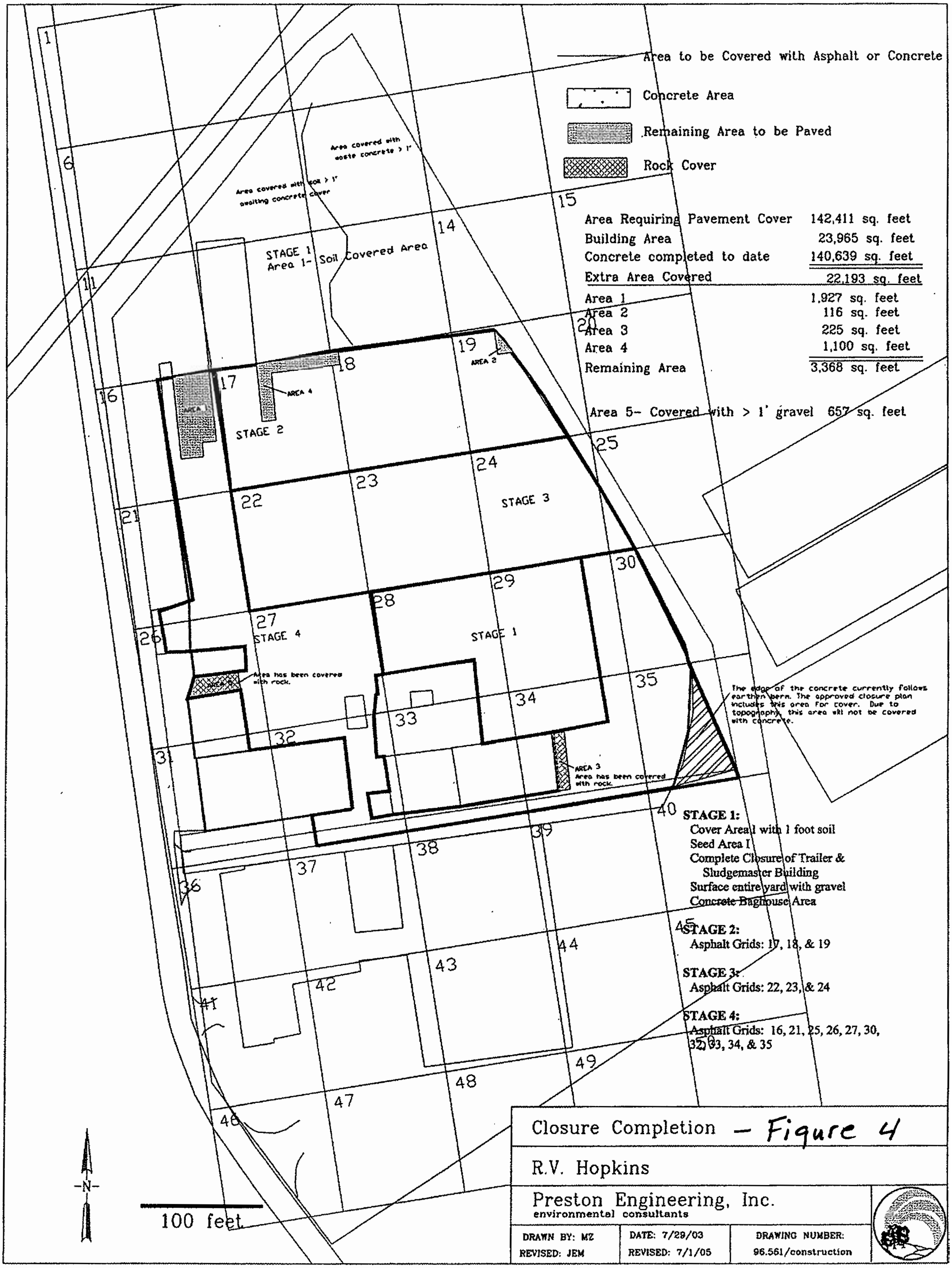
Source: Preston Engineering, Inc., 2000



Area to be Covered with Asphalt or Concrete
Concrete Area
Remaining Area to be Paved
Rock Cover
Area Requiring Pavement Cover 142,411 sq. feet
Building Area 23,965 sq. feet
Concrete completed to date 140,639 sq. feet
Extra Area Covered 22,193 sq. feet
Area 1 1,927 sq. feet
Area 2 116 sq. feet
Area 3 225 sq. feet
Area 4 1,100 sq. feet
Remaining Area 3,368 sq. feet
Area 5– Covered with > 1' gravel 657 sq. feet
STAGE 1 Area 1- Soil Covered Area
STAGE 2
STAGE 3
STAGE 4
STAGE 1
AREA 2
AREA 4
AREA 3
Area has been covered with rock.
The edge of the concrete currently follows earthen berm. The approved closure plan includes this area for cover. Due to topography, this area will not be covered with concrete.
STAGE 1:
Cover Area I with 1 foot soil
Seed Area I
Complete Closure of Trailer & Sludgemaster Building
Surface entire yard with gravel
Concrete Baghouse Area
STAGE 2:
Asphalt Grids: 17, 18, & 19
STAGE 3:
Asphalt Grids: 22, 23, & 24
STAGE 4:
Asphalt Grids: 16, 21, 25, 26, 27, 30, 32, 33, 34, & 35
-N-
100 feet
Closure Completion – Figure 4
R.V. Hopkins
Preston Engineering, Inc.
environmental consultants
DRAWN BY: MZ
REVISED: JEM
DATE: 7/29/03
REVISED: 7/1/05
DRAWING NUMBER:
96.561/construction

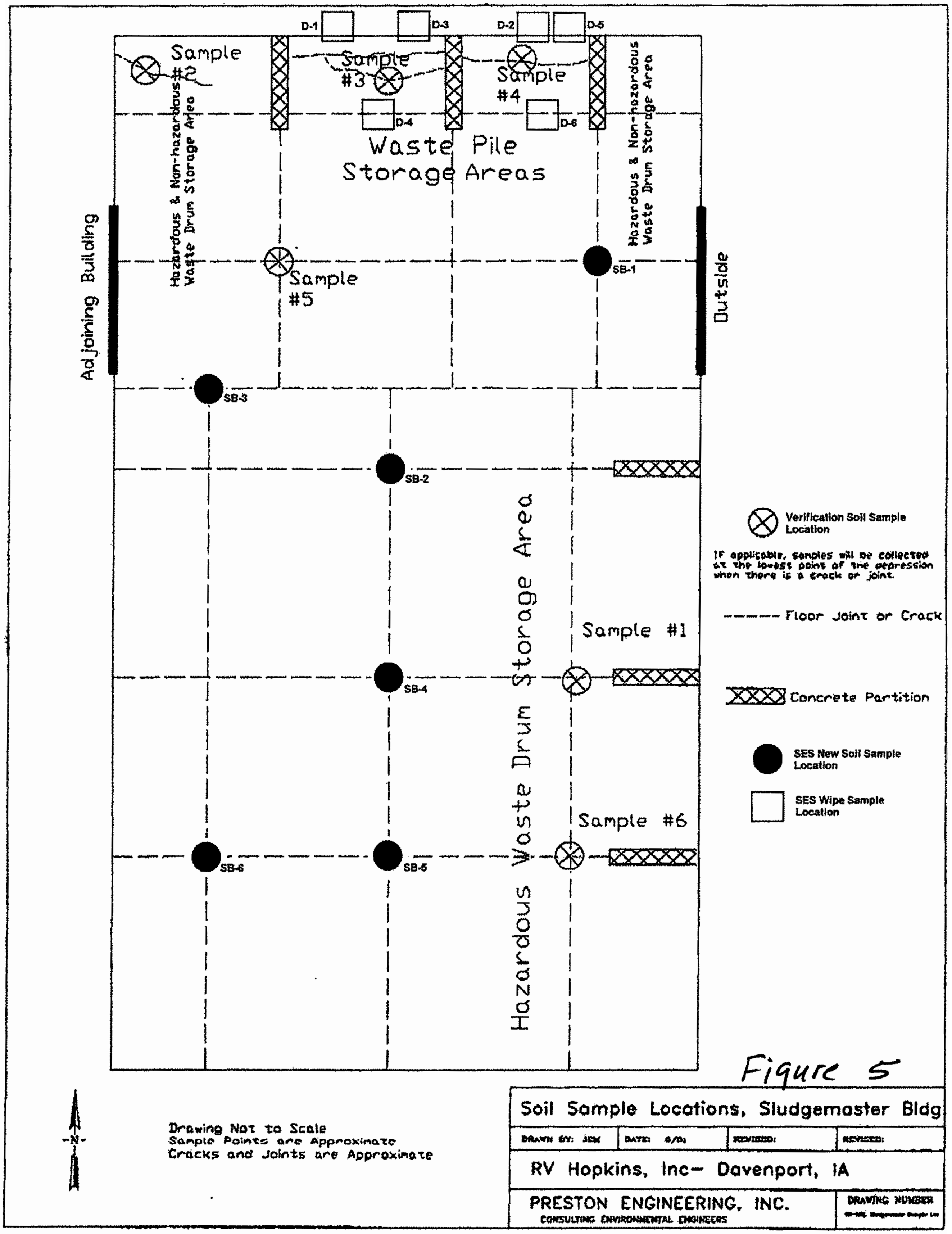
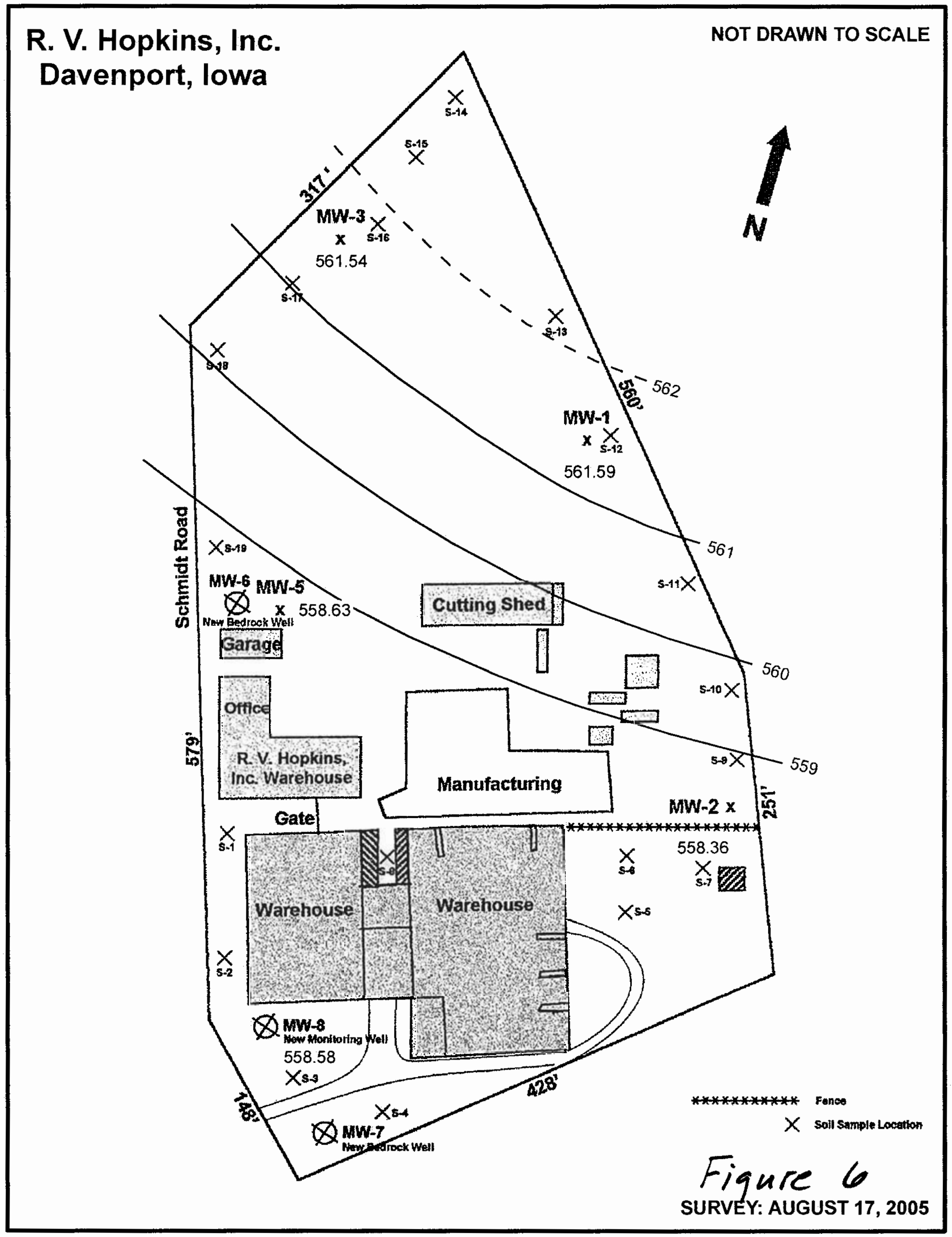


Figure 1 - Soil and Wipe Sample Locations



GROUNDWATER ELEVATION MAP
UNCONSOLIDATED ZONE WELLS

SES, INC.

Attachment 1

EPA Analytical Results (August 2005)

United States Environmental Protection Agency
Region 7
901 N. 5th Street
Kansas City, KS 66101

Date:

Subject: Transmittal of Sample Analysis Results for ASR #: 2710

Project ID: KHRVH

Project Description: R. V. Hopkins

From: Dale I. Bates, Director
Regional Laboratory, Environmental Services Division

To: Kenneth Herstowski
ARTD/RCAP

Enclosed are the analytical data for the above-referenced Analytical Services Request (ASR) and Project. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. Please complete the enclosed Customer Satisfaction Survey and Data Disposition memo for this ASR.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295.

Enclosures

cc: Analytical Data File.

Project Manager: Kenneth Herstowski Org: ARTD/RCAP Phone: 913-551-7631

Project ID: KHRVH

Project Desc: R. V. Hopkins

Location: Davenport State: Iowa Program: RCRA Enforcement

Purpose: Compliance Monitoring

Explanation of Codes, Units and Qualifiers used on this report

Sample QC Codes: QC Codes identify the type of sample for quality control purpose.

__ = Field Sample
FB = Field Blank
FD = Field Duplicate

Units: Specific units in which results are reported.

% = Percent
mg/L = Milligrams per Liter
mg/kg = Milligrams per Kilogram
ug/L = Micrograms per Liter
ug/cm2 = Micrograms per Square Centimeter
ug/kg = Micrograms per Kilogram

Data Qualifiers: Specific codes used in conjunction with data values to provide additional information on the quality of reported results, or used to explain the absence of a specific value.

(Blank) = Values have been reviewed and found acceptable for use.
J = The identification of the analyte is acceptable; the reported value is an estimate.
R = The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable.
U = The analyte was not detected at or above the reporting limit.
UJ = The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.

Project ID: KHRVH Project Desc: R. V. Hopkins

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
1 -	__	Solid	SB-1 sample		08/17/2005	16:00	08/17/2005	16:15	08/19/2005
2 -	__	Solid	SB-2 sample		08/17/2005	14:05	08/17/2005	14:15	08/19/2005
3 -	__	Solid	SB-3 sample		08/17/2005	14:15	08/17/2005	14:30	08/19/2005
4 -	__	Solid	SB-4 sample		08/17/2005	14:37	08/17/2005		08/19/2005
5 -	__	Solid	SB-5 sample		08/17/2005	14:57	08/17/2005	15:08	08/19/2005
6 -	__	Solid	SB-6 sample		08/17/2005	15:15	08/17/2005	15:30	08/19/2005
14 -	FB	Solid	Soil VOA Trip Blank sample		08/15/2005				08/19/2005
20 -	__	Waste	Wipe sample = window sills center bay		08/17/2005	16:05			08/19/2005
21 -	__	Waste	Wipe sample = window sills East bay		08/17/2005	16:10			08/19/2005
22 -	__	Waste	Wipe sample = Top of wall wood sill plate between windows of center bay		08/17/2005	16:10			08/19/2005
23 -	__	Waste	Wipe sample = Dust on 2x4 between roof trusses in center bay		08/17/2005	16:15			08/19/2005
24 -	__	Waste	Wipe sample = sill plate top of wall in East bay between windows		08/17/2005	16:20			08/19/2005
25 -	__	Waste	Wipe sample = top of 2x4 between roof trusses above East bay		08/17/2005	16:25			08/19/2005
30 -	__	Solid	Sample location S-1		08/16/2005		08/16/2005		08/19/2005
31 -	__	Solid	Sample location S-2		08/16/2005		08/16/2005		08/19/2005
32 -	__	Solid	Sample location S-3		08/16/2005		08/16/2005		08/19/2005
33 -	__	Solid	Sample location S-4		08/16/2005		08/16/2005		08/19/2005
34 -	__	Solid	Sample location S-5		08/16/2005		08/16/2005		08/19/2005
35 -	__	Solid	Sample location S-6		08/16/2005		08/16/2005		08/19/2005
36 -	__	Solid	Sample location S-7		08/16/2005		08/16/2005		08/19/2005
37 -	__	Solid	Sample location S-8		08/16/2005		08/16/2005		08/19/2005
38 -	__	Solid	Sample location S-9		08/16/2005		08/16/2005		08/19/2005
39 -	__	Solid	Sample location S-10		08/16/2005		08/16/2005		08/19/2005
40 -	__	Solid	Sample location S-11		08/16/2005		08/16/2005		08/19/2005
41 -	__	Solid	Sample location S-12		08/16/2005		08/16/2005		08/19/2005
42 -	__	Solid	Sample location S-13		08/16/2005		08/16/2005		08/19/2005
43 -	__	Solid	Sample location S-14		08/16/2005		08/16/2005		08/19/2005
44 -	__	Solid	Sample location S-15		08/16/2005		08/16/2005		08/19/2005
45 -	__	Solid	Sample location S-16		08/16/2005		08/16/2005		08/19/2005
46 -	__	Solid	Sample location S-17		08/16/2005		08/16/2005		08/19/2005
47 -	__	Solid	Sample location S-18		08/16/2005		08/16/2005		08/19/2005
47 -	FD	Solid	Sample location S-18/Field Duplicate of sample 47		08/16/2005		08/16/2005		08/19/2005
49 -	__	Solid	Sample location S-19		08/16/2005		08/16/2005		08/19/2005
50 -	__	Solid	Soil cuttings/IDW from monitoring well #6		08/17/2005		08/17/2005		08/19/2005
51 -	__	Solid	Soil cuttings/IDW from monitoring well #7		08/17/2005		08/17/2005		08/19/2005
52 -	__	Solid	Soil cuttings/IDW from monitoring well #8		08/17/2005		08/17/2005		08/19/2005
101 -	__	Water	MW-5 GW sample		08/16/2005		08/16/2005	10:30	08/19/2005
102 -	__	Water	MW-3 GW sample		08/16/2005	11:20	08/16/2005	11:30	08/19/2005

Project ID: KHRVH Project Desc: R. V. Hopkins

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
103 -	__	Water	MW-1 GW sample		08/16/2005	12:05	08/16/2005	12:15	08/19/2005
105 -	__	Water	MW-2 GW sample		08/16/2005	12:50	08/16/2005	12:58	08/19/2005
106 -	__	Water	MW-8 GW sample		08/17/2005	08:00	08/17/2005	08:10	08/19/2005
107 -	__	Water	MW-7 GW sample		08/17/2005	08:33	08/17/2005	08:42	08/19/2005
108 -	__	Water	MW-6 GW sample		08/17/2005	09:03	08/17/2005	09:07	08/19/2005
109 -	FB	Water	Water Trip Blank sample		08/10/2005	15:12			08/19/2005

Analysis Comments About Results For This Analysis

1 Metals in Solids by ICP

Lab: Region 7 ESAT Contract Lab (In-House)

Method: EPA Region 7 RLAB Method 3122.3B

Samples:						
1-__	2-__	3-__	4-__	5-__	6-__	30-__
31-__	32-__	33-__	34-__	35-__	36-__	37-__
38-__	39-__	40-__	41-__	42-__	43-__	44-__
45-__	46-__	47-__	47-FD	49-__	50-__	51-__
52-__						

Comments:

Zinc and Cobalt were J-coded in sample 1. Although the analytes in question have been positively identified in the sample, the quanitation is an estimate (J-coded) due to low recovery of this analyte in the laboratory matrix spike. The actual concentration for these analytes may be higher than the reported value.

Lead was J-coded in sample 1. Although the analyte in question has been positively identified in the sample, the quantitation is an estimate (J-coded) due to high recovery of this analyte in the laboratory matrix spike. The actual concentration for this analyte may be lower than the reported value.

Aluminum, Barium, Calcium, Cobolt, Iron, Manganese, and Nickel were J-coded in sample 43. Although the analytes in question have been positively identified in the sample, the quantitation is an estimate (J-coded) due to high recovery of these analytes in the laboratory matrix spike. The actual concentration for these analytes may be lower than the reported value.

Calcium was spiked in the matrix spiked samples at a concentration significantly lower than the concentration found in the original sample 1. Spike recoveries were not used to evaluate data quality.

The laboratory control samples were in control.

1 Percent Solid

Lab: Region 7 ESAT Contract Lab (In-House)

Method: EPA Region 7 RLAB Method 3142.9D

Samples:						
1-__	2-__	3-__	4-__	5-__	6-__	14-FB
30-__	31-__	32-__	33-__	34-__	35-__	36-__
37-__	38-__	39-__	40-__	41-__	42-__	43-__
44-__	45-__	46-__	47-__	47-FD	49-__	50-__
51-__	52-__					

Comments:

(N/A)

1 Pesticides in Soil by GC/EC

Lab: Region 7 ESAT Contract Lab (In-House)

Method: EPA Region 7 RLAB Method 3240.2F

Analysis	Comments About Results For This Analysis

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__

Comments:

1 Semi-Volatile Organic Compounds in Soil

Lab: Region 7 ESAT Contract Lab (In-House)

Method: EPA Region 7 RLAB Method 3230.2D

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__

Comments:

Reporting Limits for samples 2710-1, 2710-5, and 2710-6 were higher than typical reporting limits by a factor of two due to Gel Permeation Chromatography (GPC) clean-up. The reporting limits were further corrected for the moisture content of the samples. Reporting Limits for samples 2710-2, 2710-3, and 2710-4 were higher than typical reporting limits by a factor of ten (two times for GPC clean-up and five times for an additional dilution due to interferences). These samples were further corrected for moisture content.

Invalid results were obtained for Benzoic Acid and 2,4-Dinitrophenol in all samples, however, it appears that a matrix effect in sample 2710-1 caused invalid results for 4,6-Dinitro-2-methylphenol, 4-Nitrophenol, Pentachlorophenol, 2,4,5-Trichlorophenol, and 2,4,6-Trichlorophenol.

Indeno(1,2,3-cd)pyrene and Benzo(g,h,i)perylene were J-coded in sample 2710-1. Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, and Benzo(g,h,i)perylene were J-coded in samples 2710-2, 2710-3, 2710-4, and 2710-6. Although the analytes in question have been positively identified in the samples, the quantitation is an estimate (J coded) due to the continuing calibration check not meeting accuracy specifications. The actual concentration for these analytes may be lower than the reported value for these samples.

Benzoic Acid and 2,4-Dinitrophenol had unacceptable responses in the laboratory control sample indicating that is was not possible to obtain valid results for these analytes. Results of 'N/A' were reported with an R-code for these analytes in samples 2710-1, 2710-2, 2710-3, 2710-4, 2710-5, and 2710-6.

4,6-Dinitro-2-methylphenol, 4-Nitrophenol, Pentachlorophenol, 2,4,5-Trichlorophenol , and 2,4,6-Trichlorophenol had unacceptable response in the laboratory matrix spike and matrix spike duplicate indicating that is was not possible to obtain valid results for these analytes. Results of 'N/A' were reported with an R-code for these anallytes in sample 2710-1.

1 VOCs in Solid Matrices by GC/MS

Lab: Region 7 ESAT Contract Lab (In-House)

Analysis	Comments About Results For This Analysis

Method: EPA Region 7 RLAB Method 3230.15B

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 14-FB

Comments:
The reporting limits were increased to reflect sample size and percent moisture. This increase is approximately twice the normal reporting limit.

Acetone was J-coded in samples 1 and 4. Although the analyte in question has been positively identified in the samples, the quantitation is an estimate (J-coded) due to the continuing calibration check not meeting accuracy specifications. The actual concentration for this analyte may be lower than the reported value.

1,2-Dibromo-3-Chloropropane was UJ-coded in samples 1, 2, and 3. This analyte was not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to the continuing calibration check not meeting accuracy specifications. The actual reporting limit for this analyte may be higher than the reported value.

1,2-Dibromo-3-Chloropropane and Naphthalene were UJ-coded in samples 4, 5, 6, and 14-FB. These analytes were not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to the continuing calibration check not meeting accuracy specifications. The actual reporting limit for these analytes may be higher than the reported value.

Methyl Acetate, Naphthalene, 1,1,2,2-Tetrachloroethane, 1,2,3-Trichlorobenzene, and 1,2,4-Trichlorobenzene were UJ-coded in sample 1. These analytes were not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to low recovery of these analytes in the laboratory matrix spike/matrix spike duplicate. The actual reporting limit for these analytes may be higher than the reported value.

1 Metals in Wipe Samples by ICP

Lab: Region 7 ESAT Contract Lab (In-House)

Method: EPA Region 7 RLAB Method 3122.3B for Wipe Samples

Samples: 20-__ 21-__ 22-__ 23-__ 24-__ 25-__

Comments:
Sample 2710-25 was divided to provide materials for a matrix spike and matrix spike duplicate. The reporting limits were raised accordingly.

1 Metals in Water by ICP

Lab: Region 7 EPA Laboratory - Kansas City, Ks.

Method: EPA Region 7 RLAB Method 3122.3B

Samples: 101-__ 102-__ 103-__ 105-__ 106-__ 107-__ 108-__

Comments:
(N/A)

Analysis	Comments About Results For This Analysis

1 Pesticides in Water by GC/EC

Lab: Region 7 EPA Laboratory - Kansas City, Ks.

Method: EPA Region 7 RLAB Method 3240.2F

Samples: 101-__ 102-__ 103-__ 105-__ 106-__ 107-__ 108-__

Comments:

1 Semi-Volatile Organic Compounds in Water

Lab: Region 7 EPA Laboratory - Kansas City, Ks.

Method: EPA Region 7 RLAB Method 3230.2D

Samples: 101-__ 102-__ 103-__ 105-__ 106-__ 107-__ 108-__

Comments:

Tentative identified compound reports indicates high levels of alachlor in samples 102, 103, and 105. Estimated concentrations are between 10 and 100 ug/L. Other non-target pesticides/herbicides may also be present in large quantities in samples 102 and 103.

3,3`-Dichlorobenzidine had unacceptable response in the laboratory matrix spike indicating that is was not possible to obtain valid results for this analyte. Results of 'N/A' were reported with an R-code.

4-Nitrophenol was UJ-coded in sample 103. This analyte was not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to low recovery of this analyte in the laboratory matrix spike. The actual reporting limit for this analyte may be higher than the reported value.

4-Chloroaniline was J-coded in sample 103. Although the analyte in question has been positively identified in the sample, the quantitation is an estimate (J-coded) due to poor precision obtained for this analyte in the laboratory matrix spike and matrix spike duplicate.

3-nitroaniline, 2,4,6-and 2,4,5-trichlorophenol were UJ-coded in sample 103. These analytes were not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to poor precision obtained for these analytes in the laboratory matrix spike and matrix spike duplicate. The actual reporting limits for these analytes may be higher than the reported values.

Reporting limits were raised to 5 ug/L for the following compounds: acenaphthylene, 2,6-dinitrotoluane, acenaphthene, 4-bromophenyl-phenylether, and fluoranthene, and to 10ug/L for pentachlorophenol due to their low response in the initial calibration.

1 VOCs in Water by GC/MS

Lab: Region 7 EPA Laboratory - Kansas City, Ks.

Method: EPA Region 7 RLAB Method 3230.1E

Samples: 101-__ 102-__ 103-__ 105-__ 106-__ 107-__ 108-__
109-FB

Analysis	Comments About Results For This Analysis

Comments:

Acetone, Naphthalene, 1,2,3-Trichlorobenzene and 1,2,4-Trichlorobenzene were UJ-coded in the samples. These analytes were not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to the initial instrument calibration curve not meeting linearity specifications. The actual reporting limits may be higher than the reported values.

Slight Acetone and Hexanaone contamination was found in the laboratory method blank, and the system has had frequent blank contamination problems with 1,2,4-Trichlorobenzene and 1,2,3-Trichlorobenzene. Only samples containing these analytes at a level greater than ten times the contamination level of the blank are reported without being qualified. All samples that contained these analytes but at a level less than ten times the contamination in the blank have the result U-coded indicating that the reporting limit has been raised to the level found in the sample. Samples affected were: Acetone in sample 105, 1,2,4-Trichlorobenzene in sample 101, and 1,2,3-Trichlorobenzene in samples 101 and 102.

Vinyl Chloride was J-coded in sample 108. Although the analyte in question has been positively identified in the sample, the quantitation is an estimate (J-coded) due to high recovery of a surrogate analyte in this sample. The actual concentration for this analyte may be lower than the reported value.

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
1 Metals in Solids by ICP					
Aluminum	mg/kg	5780	7320	3150	3300
Antimony	mg/kg	2.00 U	2.00 U	2.00 U	2.00 U
Arsenic	mg/kg	8.88	5.97	7.10	9.35
Barium	mg/kg	117	135	133	129
Beryllium	mg/kg	1.00 U	1.00 U	1.00 U	1.00 U
Cadmium	mg/kg	1.63	2.07	3.79	1.46
Calcium	mg/kg	111000	14600	74900	128000
Chromium	mg/kg	19.5	21.8	109	13.8
Cobalt	mg/kg	18.8 J	7.33	9.49	6.36
Copper	mg/kg	17.0	34.1	30.3	17.4
Iron	mg/kg	10700	17900	15400	18600
Lead	mg/kg	208 J	441	633	451
Magnesium	mg/kg	10800	3060	19200	14500
Manganese	mg/kg	721	512	801	793
Molybdenum	mg/kg	2.00 U	2.00 U	7.10	2.16
Nickel	mg/kg	23.1	33.6	31.8	23.2
Potassium	mg/kg	485	686	447	418
Selenium	mg/kg	10.0 U	10.0 U	10.0 U	10.0 U
Silver	mg/kg	2.00 U	2.00 U	2.00 U	2.00 U
Sodium	mg/kg	164	138	160	214
Thallium	mg/kg	10.0 U	10.0 U	10.0 U	10.0 U
Vanadium	mg/kg	11.1	19.7	9.01	10.7
Zinc	mg/kg	421 J	249	318	200
1 Percent Solid					
Solids, percent	%	84.8	84.4	87.6	92.2
1 Pesticides in Soil by GC/EC					
Aldrin	ug/kg	0.69 U	7.0 U	13 U	3.1 U
Aroclor 1016	ug/kg	23 U	230 U	440 U	100 U
Aroclor 1221	ug/kg	23 U	230 U	440 U	100 U
Aroclor 1232	ug/kg	23 U	230 U	440 U	100 U
Aroclor 1242	ug/kg	23 U	230 U	440 U	100 U
Aroclor 1248	ug/kg	23 U	230 U	440 U	100 U
Aroclor 1254	ug/kg	11 U	120 U	220 U	51 U
Aroclor 1260	ug/kg	11 U	120 U	220 U	51 U
A-BHC	ug/kg	0.34 U	3.5 U	6.6 U	1.5 U
B-BHC	ug/kg	1.1 U	12 U	22 U	5.1 U
D-BHC	ug/kg	0.46 U	4.7 U	8.8 U	2.1 U
G-BHC	ug/kg	0.46 U	4.7 U	8.8 U	2.1 U
Chlordane, technical	ug/kg	4.6 U	47 U	88 U	21 U
p,p'-DDD	ug/kg	4.6	35	18 U	4.1 U
p,p'-DDE	ug/kg	7.0	14	810	19
p,p'-DDT	ug/kg	6.1	200	2500	49
Dieldrin	ug/kg	0.69 U	7.0 U	13 U	3.1 U
Endosulfan I	ug/kg	0.69 U	7.0 U	13 U	3.1 U
Endosulfan II	ug/kg	0.92 U	9.4 U	18 U	4.1 U

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
Endosulfan Sulfate	ug/kg	0.92 U	9.4 U	18 U	4.1 U
Endrin	ug/kg	0.92 U	9.4 U	18 U	4.1 U
Endrin Aldehyde	ug/kg	1.1 U	12 U	22 U	5.1 U
Endrin Ketone	ug/kg	0.92 U	9.4 U	18 U	4.1 U
Heptachlor	ug/kg	0.69 U	7.0 U	13 U	3.1 U
Heptachlor Epoxide	ug/kg	0.69 U	7.0 U	13 U	3.1 U
p,p'-Methoxychlor	ug/kg	2.3 U	23 U	44 U	10 U
Toxaphene	ug/kg	23 U	230 U	440 U	100 U
1 Semi-Volatile Organic Compounds in Soil					
Acenaphthene	ug/kg	190 U	1100	910 U	1100
Acenaphthylene	ug/kg	190 U	950 U	910 U	860 U
Anthracene	ug/kg	190 U	1000	910 U	860 U
Benzo(a)anthracene	ug/kg	270	2800	1300	1700
Benzo(a)pyrene	ug/kg	510	4400	3400	4500
Benzo(b)fluoranthene	ug/kg	590	5100	4000	5100
Benzo(g,h,i)perylene	ug/kg	770 J	6000 J	6100 J	7900 J
Benzo(k)fluoranthene	ug/kg	240	2000	1500	2100
Benzoic acid	ug/kg	N/A R	N/A R	N/A R	N/A R
Benzyl alcohol	ug/kg	470 U	2400 U	2300 U	2200 U
bis(2-Chloroethoxy)methane	ug/kg	190 U	950 U	910 U	860 U
bis(2-Chloroethyl)ether	ug/kg	190 U	950 U	910 U	860 U
bis(2-Chloroisopropyl)ether	ug/kg	190 U	950 U	910 U	860 U
bis(2-Ethylhexyl)phthalate	ug/kg	470 U	2400 U	2300 U	2200 U
4-Bromophenyl-phenylether	ug/kg	190 U	950 U	910 U	860 U
Butylbenzylphthalate	ug/kg	470 U	2400 U	2300 U	2200 U
Carbazole	ug/kg	470 U	2400 U	2300 U	2200 U
4-Chloro-3-methylphenol	ug/kg	470 U	2400 U	2300 U	2200 U
4-Chloroaniline	ug/kg	940 U	4800 U	4600 U	4300 U
2-Chloronaphthalene	ug/kg	190 U	950 U	910 U	860 U
2-Chlorophenol	ug/kg	470 U	2400 U	2300 U	2200 U
4-Chlorophenyl-phenylether	ug/kg	190 U	950 U	910 U	860 U
Chrysene	ug/kg	340	3100	1700	2100
Di-n-butylphthalate	ug/kg	470 U	2400 U	2300 U	2200 U
Di-n-octylphthalate	ug/kg	470 U	2400 U	2300 U	2200 U
Dibenz(a,h)anthracene	ug/kg	190 U	1400 J	1400 J	2000 J
Dibenzofuran	ug/kg	190 U	950 U	910 U	860 U
1,2-Dichlorobenzene	ug/kg	190 U	950 U	910 U	860 U
1,3-Dichlorobenzene	ug/kg	190 U	950 U	910 U	860 U
1,4-Dichlorobenzene	ug/kg	190 U	950 U	910 U	860 U
3,3'-Dichlorobenzidine	ug/kg	940 U	4800 U	4600 U	4300 U
2,4-Dichlorophenol	ug/kg	470 U	2400 U	2300 U	2200 U
Diethylphthalate	ug/kg	190 U	950 U	910 U	860 U
2,4-Dimethylphenol	ug/kg	470 U	2400 U	2300 U	2200 U
Dimethylphthalate	ug/kg	190 U	950 U	910 U	860 U
4,6-Dinitro-2-methylphenol	ug/kg	N/A R	4800 U	4600 U	4300 U

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
2,4-Dinitrophenol	ug/kg	N/A R	N/A R	N/A R	N/A R
2,4-Dinitrotoluene	ug/kg	190 U	950 U	910 U	860 U
2,6-Dinitrotoluene	ug/kg	190 U	950 U	910 U	860 U
Fluoranthene	ug/kg	460	5600	1800	1900
Fluorene	ug/kg	190 U	950 U	910 U	860 U
Hexachlorobenzene	ug/kg	190 U	950 U	910 U	860 U
Hexachlorobutadiene	ug/kg	190 U	950 U	910 U	860 U
Hexachlorocyclopentadiene	ug/kg	190 U	950 U	910 U	860 U
Hexachloroethane	ug/kg	190 U	950 U	910 U	860 U
Indeno(1,2,3-cd)pyrene	ug/kg	670 J	5500 J	5300 J	7300 J
Isophorone	ug/kg	190 U	950 U	910 U	860 U
2-Methylnaphthalene	ug/kg	190 U	950 U	910 U	860 U
2-Methylphenol	ug/kg	470 U	2400 U	2300 U	2200 U
4-Methylphenol	ug/kg	470 U	2400 U	2300 U	2200 U
Naphthalene	ug/kg	190 U	950 U	910 U	860 U
2-Nitroaniline	ug/kg	470 U	2400 U	2300 U	2200 U
3-Nitroaniline	ug/kg	470 U	2400 U	2300 U	2200 U
4-Nitroaniline	ug/kg	940 U	4800 U	4600 U	4300 U
Nitrobenzene	ug/kg	190 U	950 U	910 U	860 U
2-Nitrophenol	ug/kg	470 U	2400 U	2300 U	2200 U
4-Nitrophenol	ug/kg	N/A R	4800 U	4600 U	4300 U
N-nitroso-di-n-propylamine	ug/kg	470 U	2400 U	2300 U	2200 U
N-nitrosodiphenylamine	ug/kg	190 U	950 U	910 U	860 U
Pentachlorophenol	ug/kg	N/A R	2400 U	2300 U	2200 U
Phenanthrene	ug/kg	210	4100	910 U	860 U
Phenol	ug/kg	190 U	950 U	910 U	860 U
Pyrene	ug/kg	370	4000	1400	1600
1,2,4-Trichlorobenzene	ug/kg	190 U	950 U	910 U	860 U
2,4,5-Trichlorophenol	ug/kg	N/A R	2400 U	2300 U	2200 U
2,4,6-Trichlorophenol	ug/kg	N/A R	2400 U	2300 U	2200 U
1 VOCs in Solid Matrices by GC/MS					
Acetone	ug/kg	440 J	24 U	23 U	42 J
Benzene	ug/kg	12 U	12 U	12 U	9.4 U
Bromodichloromethane	ug/kg	12 U	12 U	12 U	9.4 U
Bromoform	ug/kg	12 U	12 U	12 U	9.4 U
Bromomethane	ug/kg	24 U	24 U	23 U	19 U
2-Butanone	ug/kg	12 U	12 U	12 U	9.4 U
Carbon Disulfide	ug/kg	12 U	12 U	12 U	9.4 U
Carbon Tetrachloride	ug/kg	12 U	12 U	12 U	9.4 U
Chlorobenzene	ug/kg	12 U	12 U	12 U	9.4 U
Chloroethane	ug/kg	12 U	12 U	12 U	9.4 U
Chloroform	ug/kg	12 U	12 U	12 U	9.4 U
Chloromethane	ug/kg	12 U	12 U	12 U	9.4 U
Cyclohexane	ug/kg	12 U	12 U	12 U	9.4 U
1,2-Dibromo-3-Chloropropane	ug/kg	24 UJ	24 UJ	23 UJ	19 UJ

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
Dibromochloromethane	ug/kg	12 U	12 U	12 U	9.4 U
1,2-Dibromoethane	ug/kg	12 U	12 U	12 U	9.4 U
1,2-Dichlorobenzene	ug/kg	12 U	12 U	12 U	9.4 U
1,3-Dichlorobenzene	ug/kg	12 U	12 U	12 U	9.4 U
1,4-Dichlorobenzene	ug/kg	12 U	12 U	12 U	9.4 U
Dichlorodifluoromethane	ug/kg	12 U	12 U	12 U	9.4 U
1,1-Dichloroethane	ug/kg	12 U	12 U	12 U	9.4 U
1,2-Dichloroethane	ug/kg	12 U	12 U	12 U	9.4 U
1,1-Dichloroethene	ug/kg	12 U	12 U	12 U	9.4 U
cis-1,2-Dichloroethene	ug/kg	12 U	12 U	12 U	9.4 U
trans-1,2-Dichloroethene	ug/kg	12 U	12 U	12 U	9.4 U
1,2-Dichloropropane	ug/kg	12 U	12 U	12 U	9.4 U
cis-1,3-Dichloropropene	ug/kg	12 U	12 U	12 U	9.4 U
trans-1,3-Dichloropropene	ug/kg	12 U	12 U	12 U	9.4 U
Ethyl Benzene	ug/kg	12 U	12 U	12 U	9.4 U
2-Hexanone	ug/kg	12 U	12 U	12 U	9.4 U
Isopropylbenzene	ug/kg	12 U	12 U	12 U	9.4 U
Methyl Acetate	ug/kg	12 UJ	12 U	12 U	9.4 U
Methyl tert-butyl ether	ug/kg	12 U	12 U	12 U	9.4 U
Methylcyclohexane	ug/kg	12 U	12 U	12 U	9.4 U
Methylene Chloride	ug/kg	12 U	12 U	12 U	9.4 U
4-Methyl-2-Pentanone	ug/kg	12 U	12 U	12 U	9.4 U
Naphthalene	ug/kg	24 UJ	24 U	23 U	19 UJ
Styrene	ug/kg	12 U	12 U	12 U	9.4 U
1,1,2,2-Tetrachloroethane	ug/kg	12 UJ	12 U	12 U	9.4 U
Tetrachloroethene	ug/kg	12 U	12 U	12 U	9.4 U
Toluene	ug/kg	12 U	12 U	12 U	9.4 U
1,2,3-Trichlorobenzene	ug/kg	12 UJ	12 U	12 U	9.4 U
1,2,4-Trichlorobenzene	ug/kg	12 UJ	12 U	12 U	9.4 U
1,1,1-Trichloroethane	ug/kg	12 U	12 U	12 U	9.4 U
1,1,2-Trichloroethane	ug/kg	12 U	12 U	12 U	9.4 U
Trichloroethene	ug/kg	24 U	24 U	23 U	19 U
Trichlorofluoromethane	ug/kg	12 U	12 U	12 U	9.4 U
1,1,2-Trichlorotrifluoroethane	ug/kg	12 U	12 U	12 U	9.4 U
Vinyl Chloride	ug/kg	12 U	12 U	12 U	9.4 U
m and/or p-Xylene	ug/kg	12 U	12 U	12 U	9.4 U
o-Xylene	ug/kg	12 U	12 U	12 U	9.4 U

Analysis/ Analyte	Units	5-__	6-__	14-FB	20-__
1 Metals in Solids by ICP					
Aluminum	mg/kg	5440	2870		
Antimony	mg/kg	2.00 U	2.00 U		
Arsenic	mg/kg	5.56	5.00 U		
Barium	mg/kg	31.9	67.1		
Beryllium	mg/kg	1.00 U	1.00 U		
Cadmium	mg/kg	1.64	1.00 U		
Calcium	mg/kg	34200	172000		
Chromium	mg/kg	19.2	10.9		
Cobalt	mg/kg	7.86	14.3		
Copper	mg/kg	17.6	11.6		
Iron	mg/kg	10900	10900		
Lead	mg/kg	29.6	149		
Magnesium	mg/kg	8050	16800		
Manganese	mg/kg	302	2850		
Molybdenum	mg/kg	2.00 U	2.00 U		
Nickel	mg/kg	33.3	29.1		
Potassium	mg/kg	249	713		
Selenium	mg/kg	10.0 U	10.0 U		
Silver	mg/kg	2.00 U	2.00 U		
Sodium	mg/kg	391	281		
Thallium	mg/kg	10.0 U	10.0 U		
Vanadium	mg/kg	12.0	7.41		
Zinc	mg/kg	38.6	90.6		
1 Percent Solid					
Solids, percent	%	92.9	90.0	95.2	
1 Pesticides in Soil by GC/EC					
Aldrin	ug/kg	0.65 U	0.62 U		
Aroclor 1016	ug/kg	22 U	21 U		
Aroclor 1221	ug/kg	22 U	21 U		
Aroclor 1232	ug/kg	22 U	21 U		
Aroclor 1242	ug/kg	22 U	21 U		
Aroclor 1248	ug/kg	22 U	21 U		
Aroclor 1254	ug/kg	11 U	10 U		
Aroclor 1260	ug/kg	11 U	10 U		
A-BHC	ug/kg	0.32 U	0.31 U		
B-BHC	ug/kg	1.1 U	1.0 U		
D-BHC	ug/kg	0.43 U	0.41 U		
G-BHC	ug/kg	0.43 U	0.41 U		
Chlordane, technical	ug/kg	4.3 U	7.8		
p,p'-DDD	ug/kg	0.87 U	5.1		
p,p'-DDE	ug/kg	1.1 U	29		
p,p'-DDT	ug/kg	2.5	64		
Dieldrin	ug/kg	0.65 U	0.62 U		
Endosulfan I	ug/kg	0.65 U	0.62 U		
Endosulfan II	ug/kg	0.87 U	0.83 U		

Analysis/ Analyte	Units	5-__	6-__	14-FB	20-__
Endosulfan Sulfate	ug/kg	0.87 U	0.83 U		
Endrin	ug/kg	1.2	0.83 U		
Endrin Aldehyde	ug/kg	1.1 U	1.0 U		
Endrin Ketone	ug/kg	0.87 U	0.83 U		
Heptachlor	ug/kg	0.65 U	0.62 U		
Heptachlor Epoxide	ug/kg	0.65 U	0.62 U		
p,p'-Methoxychlor	ug/kg	2.2 U	2.1 U		
Toxaphene	ug/kg	22 U	21 U		
1 Semi-Volatile Organic Compounds in Soil					
Acenaphthene	ug/kg	170 U	180 U		
Acenaphthylene	ug/kg	170 U	180 U		
Anthracene	ug/kg	170 U	180 U		
Benzo(a)anthracene	ug/kg	170 U	300		
Benzo(a)pyrene	ug/kg	170 U	660		
Benzo(b)fluoranthene	ug/kg	170 U	780		
Benzo(g,h,i)perylene	ug/kg	170 U	1100 J		
Benzo(k)fluoranthene	ug/kg	170 U	310		
Benzoic acid	ug/kg	N/A R	N/A R		
Benzyl alcohol	ug/kg	430 U	440 U		
bis(2-Chloroethoxy)methane	ug/kg	170 U	180 U		
bis(2-Chloroethyl)ether	ug/kg	170 U	180 U		
bis(2-Chloroisopropyl)ether	ug/kg	170 U	180 U		
bis(2-Ethylhexyl)phthalate	ug/kg	430 U	440 U		
4-Bromophenyl-phenylether	ug/kg	170 U	180 U		
Butylbenzylphthalate	ug/kg	430 U	440 U		
Carbazole	ug/kg	430 U	440 U		
4-Chloro-3-methylphenol	ug/kg	430 U	440 U		
4-Chloroaniline	ug/kg	860 U	890 U		
2-Chloronaphthalene	ug/kg	170 U	180 U		
2-Chlorophenol	ug/kg	430 U	440 U		
4-Chlorophenyl-phenylether	ug/kg	170 U	180 U		
Chrysene	ug/kg	170 U	380		
Di-n-butylphthalate	ug/kg	430 U	440 U		
Di-n-octylphthalate	ug/kg	430 U	440 U		
Dibenz(a,h)anthracene	ug/kg	170 U	260 J		
Dibenzofuran	ug/kg	170 U	180 U		
1,2-Dichlorobenzene	ug/kg	170 U	180 U		
1,3-Dichlorobenzene	ug/kg	170 U	180 U		
1,4-Dichlorobenzene	ug/kg	170 U	180 U		
3,3'-Dichlorobenzidine	ug/kg	860 U	890 U		
2,4-Dichlorophenol	ug/kg	430 U	440 U		
Diethylphthalate	ug/kg	170 U	180 U		
2,4-Dimethylphenol	ug/kg	430 U	440 U		
Dimethylphthalate	ug/kg	170 U	180 U		
4,6-Dinitro-2-methylphenol	ug/kg	860 U	890 U		

Analysis/ Analyte	Units	5-__	6-__	14-FB	20-__
2,4-Dinitrophenol	ug/kg	N/A R	N/A R		
2,4-Dinitrotoluene	ug/kg	170 U	180 U		
2,6-Dinitrotoluene	ug/kg	170 U	180 U		
Fluoranthene	ug/kg	170 U	440		
Fluorene	ug/kg	170 U	180 U		
Hexachlorobenzene	ug/kg	170 U	180 U		
Hexachlorobutadiene	ug/kg	170 U	180 U		
Hexachlorocyclopentadiene	ug/kg	170 U	180 U		
Hexachloroethane	ug/kg	170 U	180 U		
Indeno(1,2,3-cd)pyrene	ug/kg	170 U	980 J		
Isophorone	ug/kg	170 U	180 U		
2-Methylnaphthalene	ug/kg	170 U	180 U		
2-Methylphenol	ug/kg	430 U	440 U		
4-Methylphenol	ug/kg	430 U	440 U		
Naphthalene	ug/kg	170 U	180 U		
2-Nitroaniline	ug/kg	430 U	440 U		
3-Nitroaniline	ug/kg	430 U	440 U		
4-Nitroaniline	ug/kg	860 U	890 U		
Nitrobenzene	ug/kg	170 U	180 U		
2-Nitrophenol	ug/kg	430 U	440 U		
4-Nitrophenol	ug/kg	860 U	890 U		
N-nitroso-di-n-propylamine	ug/kg	430 U	440 U		
N-nitrosodiphenylamine	ug/kg	170 U	180 U		
Pentachlorophenol	ug/kg	430 U	440 U		
Phenanthrene	ug/kg	170 U	200		
Phenol	ug/kg	170 U	180 U		
Pyrene	ug/kg	170 U	370		
1,2,4-Trichlorobenzene	ug/kg	170 U	180 U		
2,4,5-Trichlorophenol	ug/kg	430 U	440 U		
2,4,6-Trichlorophenol	ug/kg	430 U	440 U		
1 VOCs in Solid Matrices by GC/MS					
Acetone	ug/kg	21 U	21 U	21 U	
Benzene	ug/kg	10 U	10 U	10 U	
Bromodichloromethane	ug/kg	10 U	10 U	10 U	
Bromoform	ug/kg	10 U	10 U	10 U	
Bromomethane	ug/kg	21 U	21 U	21 U	
2-Butanone	ug/kg	10 U	10 U	10 U	
Carbon Disulfide	ug/kg	10 U	10 U	10 U	
Carbon Tetrachloride	ug/kg	10 U	10 U	10 U	
Chlorobenzene	ug/kg	10 U	10 U	10 U	
Chloroethane	ug/kg	10 U	10 U	10 U	
Chloroform	ug/kg	10 U	10 U	10 U	
Chloromethane	ug/kg	10 U	10 U	10 U	
Cyclohexane	ug/kg	10 U	10 U	10 U	
1,2-Dibromo-3-Chloropropane	ug/kg	21 UJ	21 UJ	21 UJ	

Analysis/ Analyte	Units	5-__	6-__	14-FB	20-__
Dibromochloromethane	ug/kg	10 U	10 U	10 U	
1,2-Dibromoethane	ug/kg	10 U	10 U	10 U	
1,2-Dichlorobenzene	ug/kg	10 U	10 U	10 U	
1,3-Dichlorobenzene	ug/kg	10 U	10 U	10 U	
1,4-Dichlorobenzene	ug/kg	10 U	10 U	10 U	
Dichlorodifluoromethane	ug/kg	10 U	10 U	10 U	
1,1-Dichloroethane	ug/kg	10 U	10 U	10 U	
1,2-Dichloroethane	ug/kg	10 U	10 U	10 U	
1,1-Dichloroethene	ug/kg	10 U	10 U	10 U	
cis-1,2-Dichloroethene	ug/kg	10 U	10 U	10 U	
trans-1,2-Dichloroethene	ug/kg	10 U	10 U	10 U	
1,2-Dichloropropane	ug/kg	10 U	10 U	10 U	
cis-1,3-Dichloropropene	ug/kg	10 U	10 U	10 U	
trans-1,3-Dichloropropene	ug/kg	10 U	10 U	10 U	
Ethyl Benzene	ug/kg	10 U	10 U	10 U	
2-Hexanone	ug/kg	10 U	10 U	10 U	
Isopropylbenzene	ug/kg	10 U	10 U	10 U	
Methyl Acetate	ug/kg	10 U	10 U	10 U	
Methyl tert-butyl ether	ug/kg	10 U	10 U	10 U	
Methylcyclohexane	ug/kg	10 U	10 U	10 U	
Methylene Chloride	ug/kg	10 U	10 U	10 U	
4-Methyl-2-Pentanone	ug/kg	10 U	10 U	10 U	
Naphthalene	ug/kg	21 UJ	21 UJ	21 UJ	
Styrene	ug/kg	10 U	10 U	10 U	
1,1,2,2-Tetrachloroethane	ug/kg	10 U	10 U	10 U	
Tetrachloroethene	ug/kg	10 U	10 U	10 U	
Toluene	ug/kg	10 U	10 U	10 U	
1,2,3-Trichlorobenzene	ug/kg	10 U	10 U	10 U	
1,2,4-Trichlorobenzene	ug/kg	10 U	10 U	10 U	
1,1,1-Trichloroethane	ug/kg	10 U	10 U	10 U	
1,1,2-Trichloroethane	ug/kg	10 U	10 U	10 U	
Trichloroethene	ug/kg	21 U	21 U	21 U	
Trichlorofluoromethane	ug/kg	10 U	10 U	10 U	
1,1,2-Trichlorotrifluoroethane	ug/kg	10 U	10 U	10 U	
Vinyl Chloride	ug/kg	10 U	10 U	10 U	
m and/or p-Xylene	ug/kg	10 U	10 U	10 U	
o-Xylene	ug/kg	10 U	10 U	10 U	
1 Metals in Wipe Samples by ICP					
Aluminum	ug/cm2				284
Antimony	ug/cm2				0.612
Arsenic	ug/cm2				1.14
Barium	ug/cm2				234
Beryllium	ug/cm2				0.0300 U
Cadmium	ug/cm2				0.812
Calcium	ug/cm2				4640

Analysis/ Analyte	Units	5-__	6-__	14-FB	20-__
Chromium	ug/cm2				13.9
Cobalt	ug/cm2				2.53
Copper	ug/cm2				7.19
Iron	ug/cm2				1740
Lead	ug/cm2				98.6
Magnesium	ug/cm2				296
Manganese	ug/cm2				24.7
Molybdenum	ug/cm2				3.81
Nickel	ug/cm2				23.7
Potassium	ug/cm2				215
Selenium	ug/cm2				0.500 U
Silver	ug/cm2				0.250 U
Sodium	ug/cm2				580
Thallium	ug/cm2				0.500 U
Titanium	ug/cm2				8.25
Vanadium	ug/cm2				0.404
Zinc	ug/cm2				267

Analysis/ Analyte	Units	21-__	22-__	23-__	24-__
1 Metals in Wipe Samples by ICP					
Aluminum	ug/cm2	289	277	267	239
Antimony	ug/cm2	0.833	0.500 U	0.500 U	0.500 U
Arsenic	ug/cm2	0.510	0.399	0.250 U	0.250 U
Barium	ug/cm2	41.8	367	362	170
Beryllium	ug/cm2	0.0300 U	0.0300 U	0.0300 U	0.0300 U
Cadmium	ug/cm2	0.482	0.469	0.180	0.227
Calcium	ug/cm2	4700	4110	2490	1910
Chromium	ug/cm2	15.9	4.02	6.44	1.95
Cobalt	ug/cm2	1.51	0.508	0.211	0.100 U
Copper	ug/cm2	4.96	3.14	2.63	1.48
Iron	ug/cm2	1490	667	605	531
Lead	ug/cm2	85.1	37.2	48.6	16.7
Magnesium	ug/cm2	229	398	116	174
Manganese	ug/cm2	18.8	13.1	12.8	6.79
Molybdenum	ug/cm2	3.75	0.709	0.851	0.467
Nickel	ug/cm2	17.0	4.44	2.40	2.07
Potassium	ug/cm2	299	223	210	218
Selenium	ug/cm2	0.500 U	0.500 U	0.500 U	0.500 U
Silver	ug/cm2	0.250 U	0.250 U	0.250 U	0.250 U
Sodium	ug/cm2	720	702	631	695
Thallium	ug/cm2	0.500 U	0.500 U	0.500 U	0.500 U
Titanium	ug/cm2	6.74	10.7	7.74	4.70
Vanadium	ug/cm2	0.293	0.186	0.194	0.114
Zinc	ug/cm2	271	282	270	261

Analysis/ Analyte	Units	25-__	30-__	31-__	32-__
1 Metals in Solids by ICP					
Aluminum	mg/kg		4740	4980	5220
Antimony	mg/kg		2.00 U	2.00 U	2.00 U
Arsenic	mg/kg		12.2	7.26	11.2
Barium	mg/kg		311	391	413
Beryllium	mg/kg		1.00 U	1.00 U	1.00 U
Cadmium	mg/kg		4.43	4.91	3.97
Calcium	mg/kg		134000	167000	198000
Chromium	mg/kg		184	166	212
Cobalt	mg/kg		20.5	18.4	16.1
Copper	mg/kg		536	161	130
Iron	mg/kg		23500	20800	16400
Lead	mg/kg		1800	1730	2520
Magnesium	mg/kg		7120	7340	5440
Manganese	mg/kg		656	681	623
Molybdenum	mg/kg		29.4	15.7	25.2
Nickel	mg/kg		179	96.0	74.4
Potassium	mg/kg		627	822	926
Selenium	mg/kg		10.0 U	10.0 U	10.0 U
Silver	mg/kg		2.00 U	6.74	2.56
Sodium	mg/kg		365	223	163
Thallium	mg/kg		10.0 U	10.0 U	10.0 U
Vanadium	mg/kg		12.6	14.5	12.8
Zinc	mg/kg		791	977	861
1 Percent Solid					
Solids, percent	%		92.1	83.7	74.0
1 Metals in Wipe Samples by ICP					
Aluminum	ug/cm2	198			
Antimony	ug/cm2	1.00 U			
Arsenic	ug/cm2	0.500 U			
Barium	ug/cm2	326			
Beryllium	ug/cm2	0.0600 U			
Cadmium	ug/cm2	0.0600 U			
Calcium	ug/cm2	268			
Chromium	ug/cm2	0.308			
Cobalt	ug/cm2	0.200 U			
Copper	ug/cm2	0.125			
Iron	ug/cm2	49.2			
Lead	ug/cm2	2.10			
Magnesium	ug/cm2	40.0 U			
Manganese	ug/cm2	0.642			
Molybdenum	ug/cm2	0.300 U			
Nickel	ug/cm2	0.400 U			
Potassium	ug/cm2	180			
Selenium	ug/cm2	1.00 U			
Silver	ug/cm2	0.500 U			

Analysis/ Analyte	Units	25-__	30-__	31-__	32-__
Sodium	ug/cm2	580			
Thallium	ug/cm2	1.00 U			
Titanium	ug/cm2	1.42			
Vanadium	ug/cm2	0.200 U			
Zinc	ug/cm2	252			

Analysis/ Analyte	Units	33-__	34-__	35-__	36-__
1 Metals in Solids by ICP					
Aluminum	mg/kg	4040	2390	5820	6880
Antimony	mg/kg	2.00 U	2.00 U	2.00 U	2.00 U
Arsenic	mg/kg	7.07	5.00 U	10.8	9.97
Barium	mg/kg	115	306	311	145
Beryllium	mg/kg	1.00 U	1.00 U	1.00 U	1.00 U
Cadmium	mg/kg	3.33	1.00 U	3.73	3.12
Calcium	mg/kg	158000	207000	173000	76400
Chromium	mg/kg	67.5	342	193	75.3
Cobalt	mg/kg	14.0	9.59	15.8	11.8
Copper	mg/kg	54.8	43.6	73.7	52.2
Iron	mg/kg	12800	11900	16000	19100
Lead	mg/kg	450	2130	2220	540
Magnesium	mg/kg	6090	9400	5630	4060
Manganese	mg/kg	614	2130	588	474
Molybdenum	mg/kg	5.19	44.2	16.9	6.62
Nickel	mg/kg	96.2	47.2	75.0	47.3
Potassium	mg/kg	561	485	977	940
Selenium	mg/kg	10.0 U	10.0 U	12.7	10.0 U
Silver	mg/kg	2.00 U	2.00 U	2.00 U	2.00 U
Sodium	mg/kg	135	124	196	101
Thallium	mg/kg	10.0 U	10.0 U	10.0 U	10.0 U
Vanadium	mg/kg	11.7	6.46	14.7	21.6
Zinc	mg/kg	504	365	581	307
1 Percent Solid					
Solids, percent	%	82.2	94.6	83.6	81.2

Analysis/ Analyte	Units	37-__	38-__	39-__	40-__
1 Metals in Solids by ICP					
Aluminum	mg/kg	4740	4040	8630	3070
Antimony	mg/kg	2.00 U	2.00 U	2.00 U	2.00 U
Arsenic	mg/kg	5.13	13.6	8.72	9.99
Barium	mg/kg	109	265	244	121
Beryllium	mg/kg	1.00 U	1.00 U	1.00 U	1.00 U
Cadmium	mg/kg	1.56	2.77	1.49	1.83
Calcium	mg/kg	123000	108000	128000	123000
Chromium	mg/kg	53.6	136	29.6	93.3
Cobalt	mg/kg	9.36	15.4	8.63	10.4
Copper	mg/kg	33.7	53.3	36.8	315
Iron	mg/kg	13600	15200	10300	11900
Lead	mg/kg	485	2910	179	1510
Magnesium	mg/kg	12900	8230	12700	4190
Manganese	mg/kg	593	494	791	457
Molybdenum	mg/kg	12.0	27.5	2.00 U	8.20
Nickel	mg/kg	51.0	57.4	26.2	42.1
Potassium	mg/kg	657	574	1600	591
Selenium	mg/kg	20.1	10.0 U	11.4	10.0 U
Silver	mg/kg	2.00 U	2.00 U	2.00 U	2.00 U
Sodium	mg/kg	183	164	474	153
Thallium	mg/kg	10.0 U	10.0 U	10.0 U	10.0 U
Vanadium	mg/kg	13.2	11.6	18.7	8.77
Zinc	mg/kg	134	282	189	175
1 Percent Solid					
Solids, percent	%	97.8	89.1	78.1	91.1

Analysis/ Analyte	Units	41-__	42-__	43-__	44-__
1 Metals in Solids by ICP					
Aluminum	mg/kg	11200	8110	6870 J	6620
Antimony	mg/kg	2.00 U	2.00 U	2.00 U	2.00 U
Arsenic	mg/kg	11.7	10.8	11.6	6.13
Barium	mg/kg	571	189	188 J	168
Beryllium	mg/kg	1.00 U	1.00 U	1.00 U	1.00 U
Cadmium	mg/kg	6.11	1.61	1.63	1.63
Calcium	mg/kg	116000	25000	31800 J	100000
Chromium	mg/kg	410	19.3	18.9	32.3
Cobalt	mg/kg	25.8	8.83	9.63 J	7.43
Copper	mg/kg	211	15.4	14.7	16.5
Iron	mg/kg	24700	12100	10900 J	9300
Lead	mg/kg	4520	63.2	114	301
Magnesium	mg/kg	5290	2710	3030	3640
Manganese	mg/kg	853	1140	1100 J	873
Molybdenum	mg/kg	115	2.00 U	2.00 U	2.00 U
Nickel	mg/kg	263	19.7	25.4 J	32.0
Potassium	mg/kg	1540	1240	1110	972
Selenium	mg/kg	10.0 U	10.0 U	10.0 U	17.9
Silver	mg/kg	2.00 U	2.00 U	2.00 U	2.00 U
Sodium	mg/kg	152	176	186	227
Thallium	mg/kg	10.0 U	10.0 U	10.0 U	10.0 U
Vanadium	mg/kg	25.3	25.1	22.5	17.6
Zinc	mg/kg	721	62.0	72.9	87.9
1 Percent Solid					
Solids, percent	%	82.7	67.8	84.3	86.5

Analysis/ Analyte	Units	45-__	46-__	47-__	47-FD
1 Metals in Solids by ICP					
Aluminum	mg/kg	6840	8390	3110	5880
Antimony	mg/kg	2.00 U	2.00 U	2.00 U	2.00 U
Arsenic	mg/kg	7.16	9.20	9.25	7.71
Barium	mg/kg	188	239	164	272
Beryllium	mg/kg	1.00 U	1.00 U	1.00 U	1.00 U
Cadmium	mg/kg	1.97	2.08	1.00 U	3.05
Calcium	mg/kg	34400	30300	209000	108000
Chromium	mg/kg	33.9	71.4	77.7	118
Cobalt	mg/kg	10.6	12.1	9.16	15.5
Copper	mg/kg	19.6	21.8	32.8	61.9
Iron	mg/kg	12100	13400	11800	17200
Lead	mg/kg	285	422	1280	2250
Magnesium	mg/kg	4590	2960	2350	2940
Manganese	mg/kg	1130	1300	559	675
Molybdenum	mg/kg	2.00 U	2.00 U	10.6	16.3
Nickel	mg/kg	27.3	26.9	43.7	77.9
Potassium	mg/kg	1080	1290	472	811
Selenium	mg/kg	10.0 U	14.2	10.0 U	10.0 U
Silver	mg/kg	2.00 U	2.00 U	2.00	2.00 U
Sodium	mg/kg	121	124	107	157
Thallium	mg/kg	10.0 U	10.0 U	10.0 U	10.0 U
Vanadium	mg/kg	21.2	23.3	8.82	15.1
Zinc	mg/kg	105	112	237	419
1 Percent Solid					
Solids, percent	%	85.3	85.7	90.5	88.7

Analysis/ Analyte	Units	49-__	50-__	51-__	52-__
1 Metals in Solids by ICP					
Aluminum	mg/kg	7390	6490	2150	3600
Antimony	mg/kg	2.00 U	2.00 U	2.00 U	2.00 U
Arsenic	mg/kg	10.4	6.01	5.00 U	10.1
Barium	mg/kg	200	96.8	48.0	30.2
Beryllium	mg/kg	1.00 U	1.00 U	1.00 U	1.00 U
Cadmium	mg/kg	1.92	1.47	1.00 U	1.47
Calcium	mg/kg	20200	33100	273000	31500
Chromium	mg/kg	46.8	11.1	21.1	9.47
Cobalt	mg/kg	12.3	21.9	3.97	15.1
Copper	mg/kg	17.4	19.6	13.7	12.8
Iron	mg/kg	13200	9640	4700	6500
Lead	mg/kg	604	13.2	180	18.6
Magnesium	mg/kg	2130	2880	2300	1060
Manganese	mg/kg	1220	659	778	232
Molybdenum	mg/kg	4.47	2.00 U	2.00 U	2.00 U
Nickel	mg/kg	25.8	52.3	19.7	28.4
Potassium	mg/kg	1010	1350	303	1320
Selenium	mg/kg	10.0 U	10.0 U	10.0 U	10.0 U
Silver	mg/kg	2.00 U	2.00 U	2.92	2.00 U
Sodium	mg/kg	75.2	160	312	106
Thallium	mg/kg	10.0 U	10.0 U	10.0 U	10.0 U
Vanadium	mg/kg	23.9	13.7	6.81	8.22
Zinc	mg/kg	141	44.6	81.1	103
1 Percent Solid					
Solids, percent	%	84.9	70.3	91.8	78.0

Analysis/ Analyte	Units	101-__	102-__	103-__	105-__
1Metals in Water by ICP					
Aluminum	ug/L	5150	50 U	74.9	3480
Antimony	ug/L	50 U	50 U	50 U	50 U
Arsenic	ug/L	26.6	25 U	25 U	25 U
Barium	ug/L	388	262	258	308
Beryllium	ug/L	3 U	3 U	3 U	3 U
Cadmium	ug/L	7.12	6.10	3.13	7.08
Calcium	mg/L	116	95.6	113	174
Chromium	ug/L	15 U	15 U	15 U	15 U
Cobalt	ug/L	10 U	10 U	10 U	10 U
Copper	ug/L	24.4	5 U	5 U	71.3
Iron	ug/L	11200	15600	8600	15000
Lead	ug/L	360	91.0	50 U	55.2
Magnesium	mg/L	87.7	21.1	22.4	29.2
Manganese	ug/L	1890	517	590	3860
Molybdenum	ug/L	15 U	15 U	15 U	15 U
Nickel	ug/L	20 U	20 U	20 U	20 U
Potassium	mg/L	20.0	14.9	13.4	2 U
Selenium	ug/L	50 U	50 U	50 U	50 U
Silver	ug/L	25 U	25 U	25 U	25 U
Sodium	mg/L	57.8	43.9	37.3	67.3
Thallium	ug/L	50 U	50 U	50 U	50 U
Titanium	ug/L	98.5	20 U	20 U	74.4
Vanadium	ug/L	27.9	10 U	10 U	10 U
Zinc	ug/L	476	25 U	25 U	26.9
1 Pesticides in Water by GC/EC					
Aldrin	ug/L	0.03 U	0.03 U	0.03 U	0.03 U
Aroclor 1016	ug/L	1 U	1 U	1 U	1 U
Aroclor 1221	ug/L	1 U	1 U	1 U	1 U
Aroclor 1232	ug/L	1 U	1 U	1 U	1 U
Aroclor 1242	ug/L	0.8 U	0.8 U	0.8 U	0.8 U
Aroclor 1248	ug/L	0.8 U	0.8 U	0.8 U	0.8 U
Aroclor 1254	ug/L	0.6 U	0.6 U	0.6 U	0.6 U
Aroclor 1260	ug/L	0.4 U	0.4 U	0.4 U	0.4 U
A-BHC	ug/L	0.01 U	0.01 U	0.01 U	0.01 U
B-BHC	ug/L	0.06 U	0.06 U	0.06 U	0.06 U
D-BHC	ug/L	0.02 U	0.02 U	0.02 U	0.02 U
G-BHC	ug/L	0.02 U	0.02 U	0.02 U	0.02 U
Chlordane, technical	ug/L	0.2 U	0.2 U	0.2 U	0.2 U
p,p'-DDD	ug/L	0.04 U	0.04 U	0.04 U	0.04 U
p,p'-DDE	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
p,p'-DDT	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
Dieldrin	ug/L	0.03 U	0.03 U	0.03 U	0.03 U
Endosulfan I	ug/L	0.03 U	0.03 U	0.03 U	0.03 U
Endosulfan II	ug/L	0.04 U	0.04 U	0.04 U	0.04 U
Endosulfan Sulfate	ug/L	0.04 U	0.04 U	0.04 U	0.04 U

Analysis/ Analyte	Units	101-__	102-__	103-__	105-__
Endrin	ug/L	0.04 U	0.04 U	0.04 U	0.04 U
Endrin Aldehyde	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
Endrin Ketone	ug/L	0.04 U	0.04 U	0.04 U	0.04 U
Heptachlor	ug/L	0.03 U	0.03 U	0.03 U	0.03 U
Heptachlor Epoxide	ug/L	0.03 U	0.03 U	0.03 U	0.03 U
p,p'-Methoxychlor	ug/L	0.08 U	0.08 U	0.08 U	0.08 U
Toxaphene	ug/L	2 U	2 U	2 U	2 U
1 Semi-Volatile Organic Compounds in Water					
Acenaphthene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Acenaphthylene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Anthracene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Benzo(a)anthracene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Benzo(a)pyrene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Benzo(b)fluoranthene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Benzo(g,h,i)perylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Benzo(k)fluoranthene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Benzoic acid	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzyl alcohol	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
bis(2-Chloroethoxy)methane	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
bis(2-Chloroethyl)ether	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
bis(2-Chloroisopropyl)ether	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
bis(2-Ethylhexyl)phthalate	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
4-Bromophenyl-phenylether	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Butylbenzylphthalate	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Carbazole	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
4-Chloro-3-methylphenol	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
4-Chloroaniline	ug/L	2.0 U	2.0 U	3.9 J	2.0 U
2-Chloronaphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
2-Chlorophenol	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
4-Chlorophenyl-phenylether	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Chrysene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Di-n-butylphthalate	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Di-n-octylphthalate	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Dibenz(a,h)anthracene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibenzofuran	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
3,3'-Dichlorobenzidine	ug/L	N/A R	N/A R	N/A R	N/A R
2,4-Dichlorophenol	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Diethylphthalate	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
2,4-Dimethylphenol	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Dimethylphthalate	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
4,6-Dinitro-2-methylphenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrophenol	ug/L	10 U	10 U	10 U	10 U

Analysis/ Analyte	Units	101-__	102-__	103-__	105-__
2,4-Dinitrotoluene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
2,6-Dinitrotoluene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Fluoranthene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Fluorene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Hexachlorobenzene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Hexachlorobutadiene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Hexachlorocyclopentadiene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Hexachloroethane	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Indeno(1,2,3-cd)pyrene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Isophorone	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
2-Methylnaphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
2-Methylphenol	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
4-Methylphenol	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
2-Nitroaniline	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
3-Nitroaniline	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 U
4-Nitroaniline	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Nitrobenzene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
2-Nitrophenol	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
4-Nitrophenol	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 U
N-nitroso-di-n-propylamine	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
N-nitrosodiphenylamine	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Pentachlorophenol	ug/L	10.0 U	10.0 U	10.0 U	10.0 U
Phenanthrene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Phenol	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Pyrene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
1,2,4-Trichlorobenzene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
2,4,5-Trichlorophenol	ug/L	2.0 U	2.0 U	2.0 UJ	2.0 U
2,4,6-Trichlorophenol	ug/L	2.0 U	2.0 U	2.0 UJ	2.0 U
1 VOCs in Water by GC/MS					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	6.4 UJ
Benzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Tetrachloride	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U

Analysis/ Analyte	Units	101-__	102-__	103-__	105-__
1,2-Dibromoethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
trans-1,2-Dichloroethene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Ethyl Benzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	ug/L	8.3 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	5.0 U	5.0 U	9.7	5.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	10 U	10 U	10 U	10 U
Methylcyclohexane	ug/L	5.0 U	5.0 U	8.4	5.0 U
Methylene Chloride	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	10 UJ	10 UJ	10 UJ	10 UJ
Styrene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichlorobenzene	ug/L	6.6 UJ	6.9 UJ	5.0 UJ	5.0 UJ
1,2,4-Trichlorobenzene	ug/L	5.6 UJ	5.0 UJ	5.0 UJ	5.0 UJ
1,1,1-Trichloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichlorofluoromethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
m and/or p-Xylene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
o-Xylene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U

Analysis/ Analyte	Units	106-__	107-__	108-__	109-FB
1Metals in Water by ICP					
Aluminum	ug/L	1710	50.4	329	
Antimony	ug/L	50 U	50 U	50 U	
Arsenic	ug/L	25 U	25 U	25 U	
Barium	ug/L	129	88.4	104	
Beryllium	ug/L	3 U	3 U	3 U	
Cadmium	ug/L	3 U	3 U	3 U	
Calcium	mg/L	156	114	204	
Chromium	ug/L	15 U	15 U	15 U	
Cobalt	ug/L	10 U	10 U	10 U	
Copper	ug/L	5 U	5 U	5 U	
Iron	ug/L	1720	84.1	615	
Lead	ug/L	50 U	50 U	50 U	
Magnesium	mg/L	31.3	27.6	56.8	
Manganese	ug/L	1810	74.2	479	
Molybdenum	ug/L	15 U	15 U	15 U	
Nickel	ug/L	20 U	20 U	20 U	
Potassium	mg/L	3.40	2.45	3.59	
Selenium	ug/L	50 U	50 U	50 U	
Silver	ug/L	25 U	25 U	25 U	
Sodium	mg/L	46.9	18.7	21.7	
Thallium	ug/L	50 U	50 U	50 U	
Titanium	ug/L	26.7	20 U	20 U	
Vanadium	ug/L	10 U	10 U	10 U	
Zinc	ug/L	25 U	25 U	25 U	
1 Pesticides in Water by GC/EC					
Aldrin	ug/L	0.03 U	0.03 U	0.03 U	
Aroclor 1016	ug/L	1 U	1 U	1 U	
Aroclor 1221	ug/L	1 U	1 U	1 U	
Aroclor 1232	ug/L	1 U	1 U	1 U	
Aroclor 1242	ug/L	0.8 U	0.8 U	0.8 U	
Aroclor 1248	ug/L	0.8 U	0.8 U	0.8 U	
Aroclor 1254	ug/L	0.6 U	0.6 U	0.6 U	
Aroclor 1260	ug/L	0.4 U	0.4 U	0.4 U	
A-BHC	ug/L	0.01 U	0.01 U	0.01 U	
B-BHC	ug/L	0.06 U	0.06 U	0.06 U	
D-BHC	ug/L	0.02 U	0.02 U	0.02 U	
G-BHC	ug/L	0.02 U	0.02 U	0.02 U	
Chlordane, technical	ug/L	0.2 U	0.2 U	0.2 U	
p,p'-DDD	ug/L	0.04 U	0.04 U	0.04 U	
p,p'-DDE	ug/L	0.05 U	0.05 U	0.05 U	
p,p'-DDT	ug/L	0.05 U	0.05 U	0.05 U	
Dieldrin	ug/L	0.03 U	0.03 U	0.03 U	
Endosulfan I	ug/L	0.03 U	0.03 U	0.03 U	
Endosulfan II	ug/L	0.04 U	0.04 U	0.04 U	
Endosulfan Sulfate	ug/L	0.04 U	0.04 U	0.04 U	

Analysis/ Analyte	Units	106-__	107-__	108-__	109-FB
Endrin	ug/L	0.04 U	0.04 U	0.04 U	
Endrin Aldehyde	ug/L	0.05 U	0.05 U	0.05 U	
Endrin Ketone	ug/L	0.04 U	0.04 U	0.04 U	
Heptachlor	ug/L	0.03 U	0.03 U	0.03 U	
Heptachlor Epoxide	ug/L	0.03 U	0.03 U	0.03 U	
p,p'-Methoxychlor	ug/L	0.08 U	0.08 U	0.08 U	
Toxaphene	ug/L	2 U	2 U	2 U	
1 Semi-Volatile Organic Compounds in Water					
Acenaphthene	ug/L	5.0 U	5.0 U	5.0 U	
Acenaphthylene	ug/L	5.0 U	5.0 U	5.0 U	
Anthracene	ug/L	2.0 U	2.0 U	2.0 U	
Benzo(a)anthracene	ug/L	2.0 U	2.0 U	2.0 U	
Benzo(a)pyrene	ug/L	2.0 U	2.0 U	2.0 U	
Benzo(b)fluoranthene	ug/L	2.0 U	2.0 U	2.0 U	
Benzo(g,h,i)perylene	ug/L	2.0 U	2.0 U	2.0 U	
Benzo(k)fluoranthene	ug/L	2.0 U	2.0 U	2.0 U	
Benzoic acid	ug/L	5.0 U	5.0 U	5.0 U	
Benzyl alcohol	ug/L	2.0 U	2.0 U	2.0 U	
bis(2-Chloroethoxy)methane	ug/L	2.0 U	2.0 U	2.0 U	
bis(2-Chloroethyl)ether	ug/L	2.0 U	2.0 U	2.0 U	
bis(2-Chloroisopropyl)ether	ug/L	2.0 U	2.0 U	2.0 U	
bis(2-Ethylhexyl)phthalate	ug/L	2.0 U	2.0 U	20	
4-Bromophenyl-phenylether	ug/L	5.0 U	5.0 U	5.0 U	
Butylbenzylphthalate	ug/L	2.0 U	2.0 U	2.0 U	
Carbazole	ug/L	2.0 U	2.0 U	2.0 U	
4-Chloro-3-methylphenol	ug/L	2.0 U	2.0 U	2.0 U	
4-Chloroaniline	ug/L	2.0 U	2.0 U	2.0 U	
2-Chloronaphthalene	ug/L	2.0 U	2.0 U	2.0 U	
2-Chlorophenol	ug/L	2.0 U	2.0 U	2.0 U	
4-Chlorophenyl-phenylether	ug/L	2.0 U	2.0 U	2.0 U	
Chrysene	ug/L	2.0 U	2.0 U	2.0 U	
Di-n-butylphthalate	ug/L	2.0 U	2.0 U	2.0 U	
Di-n-octylphthalate	ug/L	2.0 U	2.0 U	2.0 U	
Dibenz(a,h)anthracene	ug/L	5.0 U	5.0 U	5.0 U	
Dibenzofuran	ug/L	2.0 U	2.0 U	2.0 U	
1,2-Dichlorobenzene	ug/L	2.0 U	2.0 U	2.0 U	
1,3-Dichlorobenzene	ug/L	2.0 U	2.0 U	2.0 U	
1,4-Dichlorobenzene	ug/L	2.0 U	2.0 U	2.0 U	
3,3'-Dichlorobenzidine	ug/L	N/A R	N/A R	N/A R	
2,4-Dichlorophenol	ug/L	2.0 U	2.0 U	2.0 U	
Diethylphthalate	ug/L	2.0 U	2.0 U	2.0 U	
2,4-Dimethylphenol	ug/L	2.0 U	2.0 U	2.0 U	
Dimethylphthalate	ug/L	2.0 U	2.0 U	2.0 U	
4,6-Dinitro-2-methylphenol	ug/L	5.0 U	5.0 U	5.0 U	
2,4-Dinitrophenol	ug/L	10 U	10 U	10 U	

Analysis/ Analyte	Units	106-__	107-__	108-__	109-FB
2,4-Dinitrotoluene	ug/L	2.0 U	2.0 U	2.0 U	
2,6-Dinitrotoluene	ug/L	5.0 U	5.0 U	5.0 U	
Fluoranthene	ug/L	5.0 U	5.0 U	5.0 U	
Fluorene	ug/L	2.0 U	2.0 U	2.0 U	
Hexachlorobenzene	ug/L	2.0 U	2.0 U	2.0 U	
Hexachlorobutadiene	ug/L	2.0 U	2.0 U	2.0 U	
Hexachlorocyclopentadiene	ug/L	5.0 U	5.0 U	5.0 U	
Hexachloroethane	ug/L	2.0 U	2.0 U	2.0 U	
Indeno(1,2,3-cd)pyrene	ug/L	2.0 U	2.0 U	2.0 U	
Isophorone	ug/L	2.0 U	2.0 U	2.0 U	
2-Methylnaphthalene	ug/L	2.0 U	2.0 U	2.0 U	
2-Methylphenol	ug/L	2.0 U	2.0 U	2.0 U	
4-Methylphenol	ug/L	2.0 U	2.0 U	2.0 U	
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	
2-Nitroaniline	ug/L	5.0 U	5.0 U	5.0 U	
3-Nitroaniline	ug/L	5.0 U	5.0 U	5.0 U	
4-Nitroaniline	ug/L	5.0 U	5.0 U	5.0 U	
Nitrobenzene	ug/L	2.0 U	2.0 U	2.0 U	
2-Nitrophenol	ug/L	2.0 U	2.0 U	2.0 U	
4-Nitrophenol	ug/L	5.0 U	5.0 U	5.0 U	
N-nitroso-di-n-propylamine	ug/L	2.0 U	2.0 U	2.0 U	
N-nitrosodiphenylamine	ug/L	2.0 U	2.0 U	2.0 U	
Pentachlorophenol	ug/L	10.0 U	10.0 U	10.0 U	
Phenanthrene	ug/L	2.0 U	2.0 U	2.0 U	
Phenol	ug/L	2.0 U	2.0 U	2.0 U	
Pyrene	ug/L	2.0 U	2.0 U	2.0 U	
1,2,4-Trichlorobenzene	ug/L	2.0 U	2.0 U	2.0 U	
2,4,5-Trichlorophenol	ug/L	2.0 U	2.0 U	2.0 U	
2,4,6-Trichlorophenol	ug/L	2.0 U	2.0 U	2.0 U	
1 VOCs in Water by GC/MS					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Tetrachloride	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U

Analysis/ Analyte	Units	106-__	107-__	108-__	109-FB
1,2-Dibromoethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
trans-1,2-Dichloroethene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Ethyl Benzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	10 U	10 U	10 U	10 U
Methylcyclohexane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	10 UJ	10 UJ	10 UJ	10 UJ
Styrene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichlorobenzene	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
1,2,4-Trichlorobenzene	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
1,1,1-Trichloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichlorofluoromethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride	ug/L	5.0 U	5.0 U	6.8 J	5.0 U
m and/or p-Xylene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
o-Xylene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U

United States Environmental Protection Agency
Region VII
901 N. 5th Street
Kansas City, KS 66101

Date: __/__/____

Subject: Data Disposition for ASR #: 2710

Project ID: KHRVH

Project Description: R. V. Hopkins

From: Kenneth Herstowski
ARTD/RCAP

To: Dee Simmons
ENSV/RLAB/CATS

I have received and reviewed the Transmittal of Sample Analysis Results for the above-referenced Analytical Services Request(ASR) and have indicated my findings below by checking one of the boxes.

☐ After reviewing the data, I have found that NO CHANGES ARE NECESSARY. Please change the ASR status to 'RELEASED' so that the electronic form of the data are available on the LAN in R7LIMS for my use. I realize that this will make these results available in read-only form to all Region 7 employees and contractors that have R7LIMS 'Customer' account.

☐ After reviewing the data, I have found that NO CHANGES ARE NECESSARY. Please change the ASR status to 'PM Available' so that the electronic form of the data are available on the LAN in R7LIMS for my use only.

☐ After reviewing the data, I have found that NO CHANGES ARE NECESSARY. Please DO NOT change the ASR status to 'RELEASED' or 'PM Available' as THIS DATA IS OF A SENSITIVE NATURE. I realize that this data will be archived on-line and any future reports or electronic data dumps must be requested through the laboratory.

☐ After reviewing the data, I have found that SOME CHANGES ARE NECESSARY. PLEASE MAKE THE CHANGES DETAILED IN THE ATTACHED LIST and re-transmit this data package. I realize that if I wait more than 14 days after the date of the data transmittal the data may already be archived and additional time may be required to make these changes.